

SOLICITATION, OFFER, AND AWARD  (Construction, Alteration, or Repair)	1. SOLICITATION NO. <b>NNK15530485R</b>	2. TYPE OF SOLICITATION <input type="checkbox"/> SEALED BID (IFB) <input checked="" type="checkbox"/> NEGOTIATED (RFP)	3. DATE ISSUED <b>October 23, 2014</b>	PAGE OF PAGES <b>1 of 166</b>

IMPORTANT — The "offer" section on the reverse must be fully completed by offeror.

4. CONTRACT NO. <b>TBD</b>	5. REQUISITION/PURCHASE REQUEST NO. <b>4200530485</b>	6. PROJECT NO. <b>PCN 97866.1, Safety &amp; Reliability Upgrades, KSC Institutional, Phase 1</b>
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7. ISSUED BY:  <b>JOHN F. KENNEDY SPACE CENTER, NASA PROCUREMENT OFFICE CODE: OP-ES KENNEDY SPACE CENTER, FL 32899</b>	CODE <b>OP-ES</b>	8. ADDRESS OFFER TO:  <b>JOHN F. KENNEDY SPACE CENTER, NASA PROCUREMENT OFFICE CODE: OP-ES Bldg N6-1009 (CIAO), Attn: Randall A. Gumke KENNEDY SPACE CENTER, FL 32899</b>
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9. FOR INFORMATION CALL:	A. NAME <b>Randall Gumke, Contracting Officer</b>	B. TELEPHONE NO. (Include area code) (NO COLLECT CALLS) <b>(321) 867-3322</b>
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#### SOLICITATION

NOTE: In sealed solicitations "offer" and "offeror" mean "bid" and "bidder".

10. THE GOVERNMENT REQUIRES PERFORMANCE OF THE WORK DESCRIBED IN THESE DOCUMENTS (Title, Identifying no., date):

The contractor shall furnish all labor, equipment, materials and related activities necessary for the revitalization of various medium and low voltage power systems, at the Kennedy Space Center, Florida.

11. The Contractor shall begin performance within ( \* ) calendar days and complete it within ( \* ) calendar days after receiving [ ] award, [ X ] notice to proceed. This performance period is [ X ] mandatory, [ ] negotiable (See \*See Article F.1b .)

12A. THE CONTRACTOR MUST FURNISH ANY REQUIRED PERFORMANCE AND PAYMENT BONDS. (If "YES," indicate within how many calendar days after award in item 12B.)  <b>YES</b>	12B. CALENDAR DAYS  <b>10 calendar days</b>
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13. ADDITIONAL SOLICITATION REQUIREMENTS:

A. Sealed offers in **original and 2** copies to perform the work required are due at the place specified in Item 8 by **3:00 P.M.** local time **November 24, 2014**. If this is a sealed bid solicitation, offers will be publicly opened at that time. Sealed envelopes containing offers shall be marked to show the offeror's name and address, the solicitation number, and the date and time offers are due.

B. An offer guarantee is required.

C. All offers are subject to the (1) work requirements, and (2) other provisions and clauses incorporated in the solicitation in full text or by reference.

D. Offers providing less than 60 calendar days for Government acceptance after the date offers are due will not be considered and will be rejected.

**OFFER (Must be fully completed by offeror)**

14. NAME AND ADDRESS OF OFFEROR (Include ZIP Code)		15. TELEPHONE NO. (Include area code)
		16. REMITTANCE ADDRESS (Include only if different than item 14)
CODE	FACILITY CODE	

17. The offeror agrees to perform the work required at the prices below in strict accordance with the terms of this solicitation, if this offer is accepted by the Government in writing within \_\_\_\_\_ calendar days after the date offers are due. (Insert any number equal to or greater than the minimum requirement stated in Item 13D. Failure to insert any number means the offeror accepts the minimum in Item 13D.

AMOUNTS **See Attached**

18. The offeror agrees to furnish any required performance and payment bonds.

**19. ACKNOWLEDGEMENT OF AMENDMENTS**

(The offeror acknowledges receipt of amendments to the solicitation - give number and date of each)

AMENDMENT NO.										
DATE										

20A. NAME AND TITLE OF PERSON AUTHORIZED TO SIGN OFFER  
(Type or Print)

20 B. SIGNATURE

20C. OFFER DATE

**AWARD (To be completed by Government)**

21. ITEMS ACCEPTED:

**See Attached**

22. AMOUNT (TOTAL AWARD)  \$ _____	23. ACCOUNTING AND APPROPRIATION DATA  <b>4200530485</b>
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24. SUBMIT INVOICE TO ADDRESS SHOWN IN (4 copies unless otherwise specified)	ITEM <b>27</b>	25. OTHER THAN FULL AND OPEN COMPETITION PURSUANT TO  [ ] 10 U.S.C. 2304(c) ( ) [ ] 41 U.S.C. 253(c) ( )
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26. ADMINISTERED BY <b>JOHN F. KENNEDY SPACE CENTER, NASA PROCUREMENT OFFICE CODE: OP-ES KENNEDY SPACE CENTER, FL 32899</b>	27. PAYMENT WILL BE MADE BY <b>NASA Shared Services Center (NSSC) Financial Management Division (FMD) – Accounts Payable Bldg 1111, C. Road Stennis Space Center, MS 39529</b>
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**CONTRACTING OFFICER WILL COMPLETE ITEM 28 OR 29 AS APPLICABLE**

[ ] 28. NEGOTIATED AGREEMENT Contractor is required to sign this document and return _____ copies to issuing office.) Contractor agrees to furnish and deliver all items or perform all work requirements identified on this form and any continuation sheets for the consideration stated in this contract. The rights and obligations of the parties to this contract shall be governed by (a) this contract award, (b) the solicitation, (c) the clauses, representations, certifications, and specifications incorporated by reference in or attached to this contract.	[ ] 29. AWARD (Contractor is not required to sign this document.) Your offer on this solicitation is hereby accepted as to the items listed. This award consummates the contract, which consists of (a) the Government solicitation and your offer, and (b) this contract award. No further contractual document necessary.
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30A. NAME AND TITLE OF CONTRACTOR OR PERSON AUTHORIZED TO SIGN (Type or Print)	31A. NAME OF CONTRACTING OFFICER (Type or Print)
30B. SIGNATURE	30C. DATE
	31B. UNITED STATES OF AMERICA  BY
	31C. AWARD DATE

SF1442 BACK, Block 17 continued.

17. The offeror agrees to perform the work required at the prices below in strict accordance with the terms of this solicitation, if this offer is accepted by the Government in writing within \_\_\_\_\_ calendar days after the date offers are due. *(Insert any number equal to or greater than the minimum requirement stated in Item 13D. Failure to insert any number means the offeror accepts the minimum in Item 13D.*

CLIN	DESCRIPTION	UNIT	UNIT PRICE
0001	<b>BASE BID 1</b> Safety & Reliability Upgrades (Tasks 2, 3, 4 & Schweitzer Relay Management System)	1 JOB	\$ _____
0002	<b>OPTION 1</b> PLC Simulator System (Sub-Task 8 of Task 4)	1 JOB	\$ _____
0003	<b>OPTION 2</b> Orsino Surge Arresters and C5 & Orsino Neutral Grounding Resistor (Portion of Task 1)	1 JOB	\$ _____
0004	<b>OPTION 3</b> Replace Surge Arresters at KSC Substations and Transformers (Portion of Task 1)	1 JOB	\$ _____
0004a	<b>OPTION 3a</b> Not to Exceed Amount of \$73,000 for Surge Arrestor Materials for OPTION 3	1 EA	<u>NTE</u> \$ 73,000.00
0005	<b>OPTION 4</b> Overhead Pole-Line Surge Suppressor (Portion of Task 1)	1 JOB	\$ _____
<b>TOTAL</b>			\$ _____
<hr/> <b>AWARD (To be completed by the Government)</b> <hr/>			

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21. ITEMS ACCEPTED:

CLIN	DESCRIPTION	UNIT	UNIT PRICE
0001	<b>BASE BID 1</b> Safety & Reliability Upgrades (Tasks 2, 3, 4 & Schweitzer Relay Management System)	1 JOB	\$ _____
0002	<b>OPTION 1</b> PLC Simulator System (Sub-Task 8 of Task 4)	1 JOB	\$ _____
0003	<b>OPTION 2</b> Orsino Surge Arresters and C5 & Orsino Neutral Grounding Resistor (Portion of Task 1)	1 JOB	\$ _____
0004	<b>OPTION 3</b> Replace Surge Arresters at KSC Substations and Transformers (Portion of Task 1)	1 JOB	\$ _____
0004a	<b>OPTION 3a</b> Not to Exceed Amount of \$73,000 for Surge Arrestor Materials for OPTION 3	1 EA	<u>NTE</u> \$ 73,000.00
0005	<b>OPTION 4</b> Overhead Pole-Line Surge Suppressor (Portion of Task 1)	1 JOB	\$ _____
<b>TOTAL AWARD</b>			\$ _____

**NASA/KSC SOLICITATION NNK15530485R**  
**TABLE OF CONTENTS**

<b>SECTION A</b>	<b>SOLICITATION/CONTRACT FORM (SF1442)</b>
<b>SECTION B</b>	<b>SUPPLIES OR SERVICES AND PRICE/COSTS</b>
<b>SECTION C</b>	<b>DESCRIPTION/SPECIFICATIONS/STATEMENT OF WORK</b>
<b>SECTION D</b>	<b>PACKAGING AND MARKING</b>
<b>SECTION E</b>	<b>INSPECTION AND ACCEPTANCE</b>
<b>SECTION F</b>	<b>DELIVERIES OR PERFORMANCE</b>
<b>SECTION G</b>	<b>CONTRACT ADMINISTRATION DATA</b>
<b>SECTION H</b>	<b>SPECIAL CONTRACT REQUIREMENTS</b>
<b>SECTION I</b>	<b>CONTRACT CLAUSES</b>
<b>SECTION J</b>	<b>LIST OF ATTACHMENTS</b>
<b>SECTION K</b>	<b>REPRESENTATIONS, CERTIFICATIONS, AND OTHER STATEMENTS OF OFFERORS OR RESPONDENTS</b>
<b>SECTION L</b>	<b>INSTRUCTIONS, CONDITIONS, AND NOTICES TO OFFERORS OR RESPONDENTS</b>
<b>SECTION M</b>	<b>EVALUATION FACTORS FOR AWARD</b>

**NASA/KSC SOLICITATION NNK15530485R**  
**SECTION B – SUPPLIES OR SERVICES AND PRICES/COSTS**

**B.1 CONSTRUCTION SERVICES AND PRICES**

<u>Line Item</u>	<u>Description</u>	<u>Unit</u>	<u>Total</u>
0001	Base Bid 1 - Safety & Reliability Upgrades (Tasks 2, 3, 4 & Schweitzer Relay Management System)	Job	\$ <b>TBD</b>
0002	Option 1 – PLC Simulator System (Sub-Task 8 of Task 4)	Job	\$ <b>TBD</b>
0003	Option 2 – Orsino Surge Arresters and C5 & Orsino Neutral Grounding Resistor (Portion of Task 1)	Job	\$ <b>TBD</b>
0004	Option 3 - Replace Surge Arresters at KSC Substations and Transformers (Portion of Task 1)	Job	\$ <b>TBD</b>
0004a	Option 3a - Not to Exceed Amount of \$73,000 for Surge Arrestor Materials for OPTION 3	EA	<b>NTE \$73,000.00</b>
0005	Option 4 – Overhead Pole-Line Surge Suppressor (Portion of Task 1)	Job	\$ <b>TBD</b>
<b>TOTAL</b>			<b>\$ <b>TBD</b></b>

**B.2 NFS 1852.216-78 FIRM FIXED PRICE (DEC 1988)**

The total firm fixed price of this contract is \$ **TBD**.

**B.3 PROJECT DELIVERABLES (MAY 2014)**

Incidental deliverables (manuals, reports, plans, and other written documentation) to be provided under this contract are identified in Section J, Attachment J-A, Project Deliverables. The costs associated with providing the data in Attachment J-A is included in the firm-fixed price of the awarded contract. Nothing contained in Attachment J-A shall relieve the Contractor from furnishing data called for by, or under the authority of, other provisions of this contract, which are not identified and described in Attachment J-A.

**NASA/KSC SOLICITATION NNK15530485R**  
**SECTION C – DESCRIPTION/SPECIFICATION/WORK STATEMENT**

**C.1 SCOPE OF WORK (MAY 2014)**

The Contractor shall furnish all management, supervision, labor, transportation, facilities, materials, tools, disposal, coordination of subcontractors, documentation, and equipment (except any property including utilities as may be specified in the Schedule to be Government-Furnished) and perform all work for the Task(s) named below, and as defined in the Technical Documentation listed below entitled "Contract Drawings, Maps and Specifications," and in accordance with the terms and conditions of this Contract, and within the performance schedule set forth in FAR clause 52.211-10 entitled "Commencement, Prosecution, and Completion of Work." This project involves work in more than one location. The contractor shall have adequate manpower and resources to perform work at multiple locations simultaneously.

<u>Line Item</u>	<u>Description</u>
<b>0001</b>	<b>Base Bid 1 - Safety &amp; Reliability Upgrades (Tasks 2, 3, 4 &amp; Schweitzer Relay Management System)</b>

CLIN-0001, Base Bid 1 consists of:

- 1) Task 2 C5 Substation Air-Bus Structure Refurbishment
- 2) Schweitzer Relay Management System (RMS) software upgrades for existing KSC equipment.
- 3) Task 3 C5 Substation Emergency Power Plant Load Bank Installation
- 4) Task 4 Design/Build Modifications to Upgrade Emergency Power Plant Control and Protection Systems.

Scope of work consists of:

- a. All Task 2 work (C5 Substation Air-Bus Structure Refurbishment) defined on Drawing 79K39768.
- b. Schweitzer Relay Management System (RMS) software upgrades for existing KSC Schweitzer equipment as specified in Specification 79K39769 Section 26 05 70.00 98 PROTECTIVE RELAY SYSTEM COMPONENTS AND APPURTENANCES (Sub-sections 1.5.4, 2.1, and 3.1.1). Note: There are no specific drawings associated with this required work.
- c. All 79K39769 specifications apply **except** Section 26 12 19.00 40 PAD MOUNTED, LIQUID FILLED, MEDIUM-VOLTAGE TRANSFORMERS.
- d. All Task 3 work (C5 Substation Emergency Power Plant Load Bank) defined on Drawing 79K39770 and associated Specification 79K39771.

**NASA/KSC SOLICITATION NNK15530485R**  
**SECTION C – DESCRIPTION/SPECIFICATION/WORK STATEMENT**

- e. All Task 4 design/build work (Emergency Power Plant Upgrade Design Build) defined on Drawing 81K06752.
- f. All SOW 81K06753 Revision A for Task 4 design / build statement of work for all Sub-tasks **except** Sub-task 8 simulator work which is Option 1 (CLIN-0002).

**0002      Option 1 – PLC Simulator System (Sub-Task 8 of Task 4)**

Scope of work consists of:

- a. Sub-task 8 work specified in SOW 81K06753 Revision A for Task 4 design / build work associated with the PLC simulator system only.

**0003      Option 2 – Orsino Surge Arrestors and C5 & Orsino Neutral Grounding Resistor (Portion of Task 1)**

CLIN-003, OPTION 2 consists of Task 1 work to:

- 1) Replace Orsino Substation surge arresters.
- 2) Upgrade the neutral grounding resistor installations and Schweitzer Engineering Laboratory (SEL) protective relay equipment at both the C5 Substation and Orsino Substation.

Scope of work consists of:

- a. The following work defined on Drawing 79K39767 (Task 1) is applicable:
  - i) Sheets V-001 through V-004.
  - ii) Sheets S-001, S-501, and S-502
  - iii) Sheet E-001 **except** Notes 5, 6, 9, 16, 20, 21, 23 26, and 27.
  - iv) Sheet E-002 **except** Specific Note A.
  - v) Sheet E-011 **except** circuits A, 21, and 22 (associated with Substation 831 transformer replacement) which are not in scope.
  - vi) Sheet E-021 **except** C5 Substation surge arrester replacements listed in SURGE ARRESTOR SCHEDULE – 1 and specific note B.
  - vii) Sheet E-028 Orsino surge arresters 4458 and 4459 **only** including Specific Notes A, B, C, E, and F.
  - viii) Sheet E-131 – Surge arresters associated with the C5 Substation in Zone A / 8.

**NASA/KSC SOLICITATION NNK15530485R**  
**SECTION C – DESCRIPTION/SPECIFICATION/WORK STATEMENT**

- ix) Sheet E-133 – Surge arresters associated with the C5 Substation in Zone H / 8.
  - x) Sheet E-149 – Surge arresters associated with the Orsino Substation in Zone G-H / 6-7.
  - xi) Sheets E-401 through E-413.
  - xii) Sheet E-421 **except** Specific Note F and all surge arrester replacements 4165 through 4169 indicated on the sheet (Option 3 work).
  - xiii) Sheet E-422.
  - xiv) Sheet E-423 **except** Specific Note E and all surge arrester replacements 3001 through 3008 and 1041 through 1056 indicated on the sheet (Option 3 work).
  - xv) Sheet E-424 **except** surge arrester 1001 replacement indicated on the sheet (Option 3 work).
  - xvi) Sheet E-425.
  - xvii) Sheet E-431 **except** surge arrester 1001 replacement indicated on the sheet (Option 3 work).
  - xviii) Sheets E-432, E-501, E-502 (Detail 6 only), and E-503.
  - xix) Sheet E-515 **except** Specific Note G (rotatable inserts to be provided with Option 3 work).
  - xx) Sheets E-517 through E-883.
- b. All 79K39769 specifications apply **except** sections:
- 26 12 19.00 40 - PAD MOUNTED, LIQUID FILLED, MEDIUM-VOLTAGE TRANSFORMERS
  - 26 13 00.00 98 - SF6 INSULATED SWITCHGEAR
  - 26 23 00.00 98 – MEDIUM VOLTAGE SWITCHGEAR



**NASA/KSC SOLICITATION NNK15530485R**  
**SECTION C – DESCRIPTION/SPECIFICATION/WORK STATEMENT**

**0004      Option 3 - Replace Surge Arresters at KSC Substations and Transformers (Portion of Task 1)**

CLIN-0004, OPTION 3: Consists of Task 1 work to replace surge arresters at KSC substations and transformers. (Note: Surge arresters at KSC's Orsino Substation and overhead pole-lines are replaced in Options 2 and 4 respectively.)

Scope of work consists of:

- a. The following Task 1 work defined on Drawing 79K39767 is applicable:
  - i) Sheets V-001 thorough V-004.
  - ii) Sheet S-501 and Detail 5 only on Sheet S-502.
  - iii) Sheet E-001 **except** General Notes 4 through 7, 9, 10, 12, 13, 15, 16, 18 through 21, 23, 26, 27, and 28.
  - iv) Sheet E-002 **except** Specific Note A.
  - v) Sheet E-021 **except** Orsino Substation Surge arrester replacements in SURGE ARRESTER SCHEDULE – 2 and specific note C (Option 2 work).
  - vi) Sheets E-023 through E-026.
  - vii) Sheet E-028 **except** Orsino Substation surge arresters 4458 and 4459 (Option 2 work).
  - viii) Sheet E-029.
  - ix) Sheets E-101 through E-162.
  - x) Sheet E-421 **except** Specific Notes B through E do not apply and no neutral grounding resistor or associated cable schedule work is in scope (only work is surge arrester 4165-4169 replacement).
  - xi) Sheet E-423 **except** Specific Notes B, C, and D do not apply and no neutral grounding resistor or associated cable schedule work is in scope (only work is surge arrester 3001 thru 3008 and 1041 thru 1056 replacements).
  - xii) Sheet E-424 **except** Specific Notes B through F do not apply and no neutral grounding resistor or associated cable schedule work is in scope (only work for this option is surge arrester 1001 replacement).

**NASA/KSC SOLICITATION NNK15530485R**  
**SECTION C – DESCRIPTION/SPECIFICATION/WORK STATEMENT**

- xiii) Sheet E-431 **except** Specific Notes B through K do not apply and no neutral grounding resistor or associated cable schedule work is in scope (only work for this option is surge arrester 1001 replacement).
- xiv) Sheet E-502 **except** Details 1, 2, 3, 4, and 5 (only Detail 6 is in scope)
- xv) Sheets E-515, E-516, and E-517.

b. The following 79K39769 specifications apply:

- i) All DIVISION 1 Sections.
- ii) All DIVISION 2 Sections
- iii) All DIVISION 5 and 9 Sections (Applicable to Sheet S-502 Detail 5 only)
- iv) Section 26 00 00.00 20 BASIC ELECTRICAL MATERIALS AND METHODS
- v) Section 26 00 00.00 98 GROUNDING AND BONDING
- vi) Section 26 05 13.00 98 MEDIUM-VOLTAGE CABLE
- vii) Section 26 11 14.00 98 MEDIUM VOLTAGE DISTRIBUTION

**0004a      Option 3a - Not to Exceed Amount of \$73,000 for Surge Arrester Materials for Option 3**

A Not to Exceed Cost reimbursable value of \$73,000 is established under CLIN 0004a, Option 3a, for the purchase of surge arrestors. Reimbursement will be provided upon receipt of paid vendor invoices. This amount covers the costs of the Surge Arrestors only. Contractor shall account for any other surge arrester replacement costs associated under CLIN 0004, Option 3.

**0005      Option 4 - Overhead Pole-Line Surge Suppressor (Portion of Task 1)**

CLIN-0005, OPTION 4: Consists of all Task 1 overhead pole-line surge suppressor replacement work.

Scope of work consists of:

a. The following Task 1 work defined on Drawing 79K39767 is applicable:

- i) Sheets V-001 through V-004.
- ii) Sheet E-001 except Notes 4 through 7, 9, 10, 12, 13, 15, 16, 19 thru 21, and 23 thru 31.
- iii) Sheet E-002 **except** Specific Note A.
- iv) Sheet E-031 and E-033

**NASA/KSC SOLICITATION NNK15530485R**  
**SECTION C – DESCRIPTION/SPECIFICATION/WORK STATEMENT**

- v) Sheets E-101, E-121, E-122, E-123, E-149, and E-152.
- vi) Sheets E-511 and E512.
- b. The following 79K39769 specifications apply:
  - i) All DIVISION 1 Sections.
  - ii) All DIVISION 2 Sections
  - iii) Section 26 00 00.00 20 BASIC ELECTRICAL MATERIALS AND METHODS
  - iv) Section 26 00 00.00 98 GROUNDING AND BONDING
  - v) Section 26 11 14.00 98 MEDIUM VOLTAGE DISTRIBUTION

**C. 2 CONTRACT DRAWINGS, MAPS, SPECIFICATIONS, AND/OR STATEMENTS OF WORK (MAY 2014)**

(a) Five sets of full scale contract drawings, maps, specifications, and/or statements of work (excluding applicable publications incorporated into the technical provisions by reference), plus one CD or DVD containing electronic, portable document format (PDF) versions, will be furnished at award to the Contractor without charge. The work shall conform to the following contract drawings, maps, specifications, and/or statements of work, attached hereto and made a part hereof:

**Specification 79K39769**, titled “Safety and Reliability Upgrade KSC Institutional Power Systems, Phase 1 of 4, (Tasks 1 and 2)”, dated September 30, 2014, pages 1 through 444

**Specification 79K39771**, titled “Safety and Reliability Upgrade KSC Institutional Power Systems, Phase 1 of 4, (Task 3)”, dated September 30, 2014, pages 1 through 306

**Statement of Work 81K06753 Revision A**, titled “Upgrade EPP (Task 4 Design Build Statement of Work)”, dated October 9, 2014, pages 1 through 186

**Drawing 79K39767**, titled “Safety and Reliability Upgrade KSC Institutional Power Systems, Phase 1 of 4, Task 1”, dated September 29, 2014, sheets 1 through 136

**Drawing 79K39768**, titled “Safety and Reliability Upgrade KSC Institutional Power Systems, Phase 1 of 4, Task 2”, dated September 26, 2014, sheets 1 through 88.

**Drawing 79K39770**, titled “Safety and Reliability Upgrade KSC Institutional Power Systems, Phase 1 of 4, Task 3”, dated September 26, 2014, sheets 1 through 31.

**NASA/KSC SOLICITATION NNK15530485R**  
**SECTION C – DESCRIPTION/SPECIFICATION/WORK STATEMENT**

**Drawing 81K06752**, titled “Upgrade Emergency Power Plant”, (Task 4) dated February 21, 2012, sheets 1 through 68.

**Existing System Reference Drawings Associated with Task 4 Statement of Work 81K06753**  
**Revision A:**

**Drawing 98K00386**, titled “Emergency Power Plant, K6-1091, Russelectric Control Wiring”, dated October 4, 2000, sheets 1 through 164.

**Drawing 98K01564**, titled “PLC Program (Primary) C5 Emergency Power Plant”, dated April 15, 2004, sheets 1 through 600.

**Drawing 98K01565**, titled “PLC Program Generator #1 C5 Emergency Power Plant”, dated April 15, 2004, sheets 1 through 213.

(b) **Addenda to Specifications, Drawings, Maps, and/or Statements of Work:**

1. Drawing 79K39767 (Task 1)

- a. Sheet E-001: General Notes 5, 9, 20, 23, 26, and 27 are not in scope.
- b. Sheet E-002: Specific Note A is not in scope.
- c. Sheet E-011: Cable Numbers A, 21 and 22 are not in scope.
- d. Sheet E-024: Surge Arresters 4013, 4075, and 4076 are not in scope.
- e. Sheet E-025: Surge Arrester 4177 is not in scope.
- f. Sheet E-026: Surge Arrester 4212 is not in scope.
- g. Sheet E-026: Second sentence of Specific Note F is revised as follows:

From: MLP WILL BE LOCATED IN EITHER AREA 8 OR AREA 11.

To: MLP OR MOBILE LAUNCHER WILL BE LOCATED IN EITHER AREA 5, 8,  
OR 11.

- h. Sheet E-028: Surge Arresters 4401, 4407, 4422, 4423, 4427, 4429, and 4438 are not in scope.
- i. Sheet E-029: Surge Arresters 4530, 4531, 4532, and 4533 are not in scope.
- j. Sheet E-133: Detail call outs 1/E-421 and 2/E-421 are incorrect (should be 1/E-441 and 2/E-441 respectively) and are not in scope.
- k. Sheet E-441: Entire sheet is not in scope.
- l. Sheet E-502: Details 1, 2, 3, 4 and 5 are not in scope (only detail 6 is in scope).
- m. Sheet E-502: Title of Detail 6 is corrected as follows:

From: 18KV, 200A LOADBREAK TRANSFORMER M.O.V. ELBOW ARRESTER  
DETAIL

**NASA/KSC SOLICITATION NNK15530485R**  
**SECTION C – DESCRIPTION/SPECIFICATION/WORK STATEMENT**

To: 15KV, 200A LOADBREAK TRANSFORMER M.O.V. ELBOW ARRESTER  
DETAIL

n. Sheet E-601: Add Specific Note D as follows:

D. ONLY ONE (1) NEUTRAL GROUNDING RESISTOR LOCATION AT T-1,  
T-2, OR T-3 MAY BE MODIFIED AT ANY GIVEN TIME. SUBMIT  
OUTAGE FOR TRANSFORMER ASSOCIATED WITH NGR WORK.

o. Sheet E-602: Add Specific Note D as follows:

D. ONLY ONE (1) NEUTRAL GROUNDING RESISTOR LOCATION AT T-8,  
T-9, OR T-10 MAY BE MODIFIED AT ANY GIVEN TIME. SUBMIT  
OUTAGE FOR TRANSFORMER ASSOCIATED WITH NGR WORK.

2. Drawing 79K39768 (TASK 2)

a. Sheet E-003: Note 3 sub-notes A and B are modified as follows:

From: A. AIR INSULATED BUS STRUCTURE WORK  
1) REMOVE OR PROTECT ELECTRICAL EQUIPMENT  
1) REFURBISH STEEL STRUCTURE  
2) REINSTALL AND TEST ELECTRICAL EQUIPMENT

B. EMERGENCY POWER PLANT MODIFICATIONS (TAKS 3 AND 4)

To: A. AIR INSULATED BUS STRUCTURE WORK  
1) REMOVE OR PROTECT ELECTRICAL EQUIPMENT  
2) REPLACE AND REFURBISH STEEL STRUCTURE  
3) PROVIDE, REPLACE, AND TEST ELECTRICAL EQUIPMENT  
  
B. EMERGENCY POWER PLANT MODIFICATIONS (TASKS 3 AND 4)  
WHICH INCLUDES OPERATIONAL TESTING OF AIR INSULATED  
BUS 2 AND BUS 3 BREAKERS MODIFIED ON TASK 4 WORK.

b. Sheet E-111: Specific Note Y sub-note 2 is modified as follows:

From: 2. ENGINE CONTROL PANEL CONTROL WIRING AS PER DWG E-621.  
REFER TO DWG E-402 FOR ADDITIONAL INFORMATION.

To: 2. ENGINE CONTROL PANEL CONTROL WIRING AS PER DWG E-621.  
REFER TO DWG E-401 FOR ADDITIONAL INFORMATION.

c. Sheet E-401: Specific Note W is modified as follows:

**NASA/KSC SOLICITATION NNK15530485R**  
**SECTION C – DESCRIPTION/SPECIFICATION/WORK STATEMENT**

From: W PROVIDE TWO 1” CONDUITS PER GENERATOR FOR CONTROL AND CT WIRING. ROUTE CONDUIT THROUGH BUILDING WALL AND TERMINATE CONDUCTORS AS INDICATED ON DWGS E-111 AND E-624.

To: W PROVIDE THREE 1” CONDUITS PER GENERATOR FOR CONTROL, PT, AND CT WIRING. ROUTE CONDUIT THROUGH BUILDING WALL AND TERMINATE CONDUCTORS AS INDICATED ON DWGS E-111 AND E-621.

- d. Sheet E-405: First sentence of Specific Note B is modified as follows:

From: PROVIDE HORIZONTAL DIRECTIONAL DRILLED CONDUIT BETWEEN MH-41 AND MH-51.

To: PROVIDE HORIZONTAL DIRECTIONAL DRILLED CONDUIT BETWEEN MH-E41 AND MH-E51.

- e. Sheet E-621: Add Flag Note P call-out at each generator breaker “PT-BUS (SOURCE) located in G / 7 and G / 4 and add Specific Note P as follows:

P PROVIDE ONE 1” CONDUIT WITH (3) #12 AND #12 GND PT OUTPUT WIRING PER GENERATOR TO EACH GENERATOR CONTROLLER VOLTAGE REGULATOR SYSTEM.

- f. Sheet E-621: Revise Flag Note M as follows:

From: PROVIDE (10) #14 CTRL AND (1) #14 GND FOR DISCRETE I/O BETWEEN SEL 351-A PROTECTIVE RELAY AND EXISTING EPP-1 GENERATOR-1 ENGINE CONTROL PANEL AS FOLLOWS:

- (2) #14 CTRL FOR GENERATOR SUMMARY FAULT (INPUT TO SEL-351A)
- (2) #14 CTRL FOR GENERATOR SUMMARY ALARM (INPUT TO SEL-351A)
- (2) #14 CTRL FOR GENERATOR RUN (OUTPUT FROM SEL-351A).
- (2) #14 CTRL FOR GENERATOR E-STO (OUTPUT FROM SEL-351A)
- (2) #14 CTRL FOR SPARE
- (1) #14 GND.

**NASA/KSC SOLICITATION NNK15530485R**  
**SECTION C – DESCRIPTION/SPECIFICATION/WORK STATEMENT**

To: PROVIDE (10) #14 CTRL AND (1) #14 GND FOR DISCRETE I/O BETWEEN SEL 351-A PROTECTIVE RELAY AND EXISTING EPP-1 GENERATOR-1 ENGINE CONTROL PANEL AS FOLLOWS:

- (2) #14 CTRL FOR GENERATOR SUMMARY FAULT (INPUT TO SEL-351A)
- (2) #14 CTRL FOR GENERATOR SUMMARY ALARM (INPUT TO SEL-351A)
- (2) #14 CTRL FOR GENERATOR RUN (OUTPUT FROM SEL-351A)
- (2) #14 CTRL FOR GENERATOR E-STOP (OUTPUT FROM SEL-351A)
- (2) #14 CTRL FOR UTILITY LOAD CONTROL (CILC) (INPUT TO SEL-351A)
- (1) #14 GND.

- g. Sheet S-001, Zone A-B / 3-5: Add Sub-Note 2 to box note H – ELECTRICAL WORK COORDINATION as follows:

2. REFERENCE STRUCTURAL COORDINATION NOTES ON SHEET E-510 REGARDING PAINTING COMPLETION AND PAINTING REPAIR REQUIRED PRIOR TO THE INSTALLATION OF ELECTRICAL EQUIPMENT.

3. Drawing 81K06752 (Task 4)

- a. All Sheets – Any reference to “TASKS” (TASK 1 through TASK 8) on Drawing 81K06752 is referenced in the accompanying Specification 81K06753 REVISION A as a “SUB-TASK” (Sub-Task 1 through Sub-Task 8).

- b. Sheet G-1, Zone C / 1-2: Revise note as follows:

From: PROVIDE SHALL MEAN TO FURNISH AND INSTALL TECHNICAL SPECIFICATION 81K06752-TS1

To: PROVIDE MEANS TO FURNISH AND INSTALL TECHNICAL SPECIFICATION 81K06753 REVISION A

- c. Sheet E-3, Zone B / 3-7: Revise note as follows:

From: TASK 7: DEVELOP A COMPREHENSIVE TEST AND COMMISSIONING PROTOCOL TO VALIDATE SYSTEM DESIGN, INSTALLATION, & FUNCTIONALITY TESTING. (NOT IN CONTRACT – REF ONLY)

To: TASK 7: DEVELOP A COMPREHENSIVE TEST AND COMMISSIONING PROTOCOL TO VALIDATE SYSTEM DESIGN, INSTALLATION, & FUNCTIONALITY TESTING.

- d. Sheet E-5: Revise Specific Note K as follows:

**NASA/KSC SOLICITATION NNK15530485R**  
**SECTION C – DESCRIPTION/SPECIFICATION/WORK STATEMENT**

From: PROVIDE BID APPROVED OPTION TO PROVIDE 3500 KVA REACTIVE LOAD BANK PER SPEC. 81K06753.

To: NOTE NOT USED.

- e. Sheet E-51: Revise Note 3a. as follows:

From: Provide and Install (7) New GE FANUC CPU's (Part No. IC695CPU320)

To: Provide and Install (7) New GE FANUC CPU's (Part No. IC695CPU350)

- f. Sheet E-51, Zones E-F / 7, E-F / 4, and D / 1-2: Revise CPU Number:

From: IC695CPU320

To: IC695CPU350

- g. Sheet E-56, Zone D / 7: Revise CPU Number:

From: IC695CPU320

To: IC695CPU350

- h. Sheet E-65, Zone D / 6: Revise the last sentence as follows

From: Refer to Specifications 81K06752

To: Refer to Statement of Work 81K06753, Revision A

4. Specification 79K39769 (Task 2)

- a. Section 26 23 00.00 98 MEDIUM VOLTAGE SWITCHGEAR, Section 2.2.7.2 Sequence of Operation, Page 296. – ADD condition d. below to “Automatic transfer will be initiated if:”

- d. FPL electric utility Commercial Industrial Load Control (CILC) contact is closed and not subsequently inhibited by KSC's KCCS power console operator.

(c) "Or Equal" Items

Throughout the Technical Specifications and on the drawings of this contract, where certain manufacturers' trade names and model numbers are specified and followed by the term "or equal," the manufacturer's name and data as specified shall represent the minimum standard type, quality, and capacity acceptable for incorporation into the work covered by this contract. The products of other



**NASA/KSC SOLICITATION NNK15530485R**  
**SECTION C – DESCRIPTION/SPECIFICATION/WORK STATEMENT**

manufacturers will be considered as being acceptable, provided that such products fully meet or exceed all minimum structural or use and operational features of the particular manufacturers' items as specified, and provided that the other manufacturers' items is easily interchangeable and can be adequately incorporated within the allocated space in the building or structure. In all cases, the acceptability of "or equal" items shall be at the Contracting Officer's discretion, based upon approval data submitted by the Contractor in accordance with the requirements under Shop Drawings herein.

(d) Omissions from the drawings or specifications, or the omission or misdescription of details of work which are manifestly necessary to carry out the intent of the drawings and specifications, or which are customarily performed, shall not relieve the Contractor from performing such omitted or misdescribed details of the work but they shall be performed as if fully and correctly set forth and described in the drawings and specifications.

(e) The Contractor shall check all drawings furnished him immediately upon their receipt and shall promptly notify the Contracting Officer of any discrepancies. Figures marked on drawings shall in general be followed in preference to scale measurements. Large scale drawings shall in general govern small scale drawings. The Contractor shall compare all drawings and verify the figures before laying out the work and will be responsible for any errors which might have been avoided thereby.

**C. 3 REQUEST FOR INFORMATION/CLARIFICATION (RFIC) (MAY 2014)**

The Contractor shall promptly report to the Contracting Officer all problems or conflicting technical information encountered during the contract performance so that the Government may provide solutions or appropriate direction. Such problems shall be reported on KSC Form No. 8-268, "Request for Information/Clarification," to be provided by the Government. A copy of each RFIC will be provided to the Contracting Officer's Representative (COR) concurrently with the transmittal to the Contracting Officer. The Contractor shall log and control each Request for Information/Clarification (RFIC), including those generated by subcontractors.

**C. 4 DEVIATIONS AND WAIVERS (MAY 2014)**

- (a) When the Contractor proposes to perform work which does not conform to the requirements of the applicable contract drawings and specifications, the Contractor shall submit to the Contracting Officer for approval, a written request for deviation or request for waiver on the nonconforming work.
- (b) All requests by the Contractor shall be submitted on KSC Form 8-69 (Contractor Request to Use Nonconforming Parts or Material) fully executed including an offer of consideration to the Government. The request must be technically supported by justification, rationale, design considerations, calculations and other data which permits ready and conclusive evaluation by the Government as to acceptability or nonacceptability.
- (c) Where a requested deviation or waiver on a particular aspect of the work has a relation to, or affects, other aspects of the work, those other aspects of the work shall be clearly identified

**NASA/KSC SOLICITATION NNK15530485R**  
**SECTION C – DESCRIPTION/SPECIFICATION/WORK STATEMENT**

and referenced. And, if the requested deviation or waiver necessitates a deviation or waiver on other aspects, requests for all such deviations and waivers must be submitted concurrently.

- (d) Any request not submitted in strict accordance with this provision will not be considered.

**NASA/KSC SOLICITATION NNK15530485R**  
**SECTION D – PACKAGING AND MARKING**

**D. 1 NASA FEDERAL ACQUISITION REGULATION (48 CFR CHAPTER 18) CLAUSES  
INCORPORATED BY REFERENCE**

**NFS 1852.245-74 IDENTIFICATION AND MARKING OF GOVERNMENT  
EQUIPMENT (JAN 2011)**

Fill-in: (e) Transportation Officer, NASA  
c/o ISC Warehouse, Bldg M6-744  
Kennedy Space Center, FL 32899

**NASA/KSC SOLICITATION NNK15530485R**  
**SECTION E - INSPECTION AND ACCEPTANCE**

**E. 1 LISTING OF FEDERAL ACQUISITION REGULATION (48 CFR CHAPTER 1) CLAUSES INCORPORATED BY REFERENCE**

**FAR 52.246-12 INSPECTION OF CONSTRUCTION (AUG 1996)**

**E. 2 NASA FEDERAL ACQUISITION REGULATION (48 CFR CHAPTER 18) CLAUSES INCORPORATED BY REFERENCE**

**NFS 1852.246-72 MATERIAL INSPECTION AND RECEIVING REPORT (AUG 2003)**

Fill in: (a) At the time of each delivery to the Government under this contract, the Contractor shall furnish a Material Inspection and Receiving Report (DD Form 250 series) prepared in three copies, an original and two copies.

**E. 3 BASIC INSPECTION SYSTEM (MAY 2014)**

Pursuant to FAR Clause 52.246-12, entitled "Inspection of Construction," the Contractor shall maintain and implement a basic inspection system as identified below:

(a) Definitions:

"Inspection" means examining and testing supplies or services (including, when appropriate, raw materials, components, and intermediate assemblies) to determine whether they conform to contract requirements.

"Testing" means that element of inspection that determines the properties or elements, including functional operation of supplies or their components, by the application of established scientific principles and procedures.

"Independent Testing Laboratory" means an independent organization, accepted by the Contracting Officer, engaged to perform specific inspections or tests of the work, either at the site or elsewhere, and report the results of these inspections or tests.

- (b) The inspection system shall be documented to ensure and provide objective evidence of quality control in the form of records of inspections and test results. The system shall also ensure that nonconforming articles or materials are discovered, documented, and controlled through effective remedial and preventive actions.

The Contractor may use, at his option, in whole or in part, his existing higher level inspection system or quality assurance program provided such system is revised and identified to the requirements below.

- (c) The Contractor shall provide a narrative description of an inspection system which provides for compliance with the quality requirements and technical criteria of the

**NASA/KSC SOLICITATION NNK15530485R**  
**SECTION E - INSPECTION AND ACCEPTANCE**

contract.

- (1) The description shall be submitted for review by the Contracting Officer not later than 7 days after contract award.
  - (2) The description shall address each of the Basic Inspection System Requirements identified in paragraph (d) below. This submittal shall address both the general inspection system that will be used during the performance of all work under the contract, including but not limited to those items identified under paragraphs d(1), d(2)(iv), d(2)(v), and d(2)(vi) below.
- (d) Basic Inspection System Requirements: The Contractor shall describe how each of the following requirements is to be satisfied and what records will be maintained, both on-site and offsite.
- (1) The Contractor shall identify the individual responsible for on-site contact and communication relative to implementation and operation of the inspection system. The name of this individual shall be provided, in writing, to the Contracting Officer's Representative (COR).
  - (2) Standard requirements:
    - (i) A purchasing control system which ensures that all purchasing documents, including those of subcontractors and suppliers, are traceable to the drawings, specifications, and approved submittal requirements.
    - (ii) A receiving inspection system with documented evidence of Contractor inspection traceable to the procurement documents.
    - (iii) A system of controls and records for handling, recording, identification and disposition of nonconforming articles and materials.
    - (iv) A system of identification of inspections required by each specific section of the specifications and drawings and what records will be maintained.
    - (v) Identification of tests to be performed, including test procedures, test records, and the independent testing organization(s) be utilized.
    - (vi) Additional requirements (if included in the drawings, specifications, or contract provisions):
      - (A) Certification or recertification of personnel and qualification of procedures.

**NASA/KSC SOLICITATION NNK15530485R**  
**SECTION E - INSPECTION AND ACCEPTANCE**

(B) Management and accountability of Government furnished equipment, components, or materials.

(C) Calibration of inspection test gages, tools, measuring instruments, and independent laboratories to be utilized.

**E. 4    SYSTEMS ACCEPTANCE AND TESTING (MAY 2014)**

Pursuant to FAR 52.246-12 "Inspection of Construction"; systems tests shall be performed as described below.

(a) SYSTEMS

Systems tests shall be performed on fire protection, fire suppression, HVAC, compressed air and all other assemblies of components which must be tested as an inter-related whole to verify proper functioning.

(b) SYSTEM TEST PROCEDURES

A test procedure and a recording form which documents every step of the system test shall be submitted for approval under the terms of the "Shop Drawings" clause of this contract. Test procedures must be approved prior to requesting a date for testing. Each step in the test procedure shall be witnessed by the Contracting Officer's Representative who shall then date and sign the approved recording form for each step witnessed.

The procedure shall consist of step by step instructions for testing all specified system parameters, system components, and proper overall functioning of the system.

(c) SYSTEM TESTING AND ACCEPTANCE

The following tests shall be performed by the Contractor in strict accordance to the approved test procedure described above.

- (1) Functional Test -- This shall be an "in house" test to verify proper installation and functioning of the system and its components. This functional test shall be performed in the presence of Government inspectors and shall be repeated until the Contractor can perform one full test without device or system malfunction.
- (2) System Acceptance Test -- After successful completion of the functional testing the system shall be tested formally with full documentation using the previously approved recording form. The Contractor shall notify the Contracting Officer, in writing, forty eight (48) hours prior to system acceptance testing. The appointed Contracting Officer Representative will witness, date and stamp each

**NASA/KSC SOLICITATION NNK15530485R**  
**SECTION E - INSPECTION AND ACCEPTANCE**

test in the procedure. Acceptance of the system will be based upon the written approval of the Contracting Officer's Representative.

Nothing in this clause shall relieve the requirements of FAR 52.246-12, "Inspection of Construction."

**E. 5 CONCRETE PLACEMENT INSPECTION AND PLAN (MAY 2014)**

All forms, reinforcement and embedded items shall be placed and ready for inspection 24 hours to 48 hours prior to any concrete placement. After Government inspection of forms and embedded items and at least 24 hours before concrete placement the Contractor shall meet with the Contracting Officer's Representative and provide a written plan for concrete placement including the following information:

- (a) Volume of concrete to be placed and calculations used in determining volume.
- (b) Verification from concrete supplier of volume of concrete to be delivered and delivery date.
- (c) Labor breakdown for crew to be used on concrete placement and finishing.
- (d) Equipment to be used during placement and finishing.

The Contractor's plan for concrete placement must be approved by the Contracting Officer's Representative prior to placement of concrete. The Government reserves the right to waive the above requirement for placement of less than 3 cubic yards. The Contractor shall place no concrete without an approved concrete placement plan or a written waiver from the Contracting Officer.

**E. 6 FINAL INSPECTION AND ACCEPTANCE (JUL 2014)**

Final inspection and acceptance of all work under this contract will be conducted by the Contracting Officer's Representative (COR). Upon satisfactory completion of the contract, the Contractor shall be paid the fixed-price value of the contract, less the amount of any progress payments made under FAR Clause 52.232.5, Payments Under Fixed-Price Construction Contracts.

**NOTE: The contractor shall include a line item in the schedule of values and progress schedule for completion of punch-list items, site clean-up, demobilization and final construction (as-built) drawings. The amount of this line item shall be equal to 10% of the contract value or \$100,000, whichever is less. The Government will not pay final invoices for this amount until all punch-list, site clean-up, and demobilization activities are complete; final construction drawings are delivered; and final acceptance is made on DD Form 250, Material Inspection and Receiving Report.**

**NASA/KSC SOLICITATION NNK15530485R**  
**SECTION F – DELIVERIES OR PERFORMANCE**

**F. 1 LISTING OF FEDERAL ACQUISITION REGULATION (48 CFR CHAPTER 1) CLAUSES INCORPORATED BY REFERENCE**

**FAR 52.211-10 COMMENCEMENT, PROSECUTION, AND COMPLETION OF WORK (APR 1984)**

Fill ins:

- (a) The Contractor shall be required to (a) commence work under this contract within ten calendar days after the date the Contractor receives the notice to proceed.
- (c) complete the entire work ready for use not later than, see table below.

Contract Line Item	Time Stated for Completion
BASE BID	912 Calendar days after Notice to Proceed for the Base Bid is issued
OPTION 1	365* Calendar days after Notice to Proceed for the Base Bid is issued
OPTION 2	Completion date coincides with completion date of the Base Bid.
OPTION 3	1460 Calendar days after Notice to Proceed for the Base Bid is issued
OPTION 4	365 Calendar days after Notice to Proceed for the Base Bid is issued

\* The scope of work must be complete and operable prior to the major C5 Bus Structure and Emergency Power Plant Outage associated with Task 2 work in the Base Bid. See Statement of Work 81K06763 Revision A, Section 01 11 40 Summary of Work, sub-section entitled “DESIGN SERVICES”.

**FAR 52.242-14 SUSPENSION OF WORK (APR 1984)**

**F. 2 WORK PERIOD (MAR 2002)**

Contractor's work day will be limited to first shift 7 A.M. to 3:30 P.M., on Monday through Friday or 7 A.M. to 5:30 P.M. any four days Monday through Friday. Any other work period will require special/ written approval from the Contracting Officer seven (7) days in advance of proposed change in work periods.

**Exceptions:**

Work Period shall be on Saturday or Sunday for outages involving relocating Feeders A1 and 518 to and from the C5 Substation Temporary Switchgear or for connecting or disconnecting new or



**NASA/KSC SOLICITATION NNK15530485R**  
**SECTION F – DELIVERIES OR PERFORMANCE**

temporary feeders to the existing C5A Substation (K6-1141A) switchgear on Base Bid 1, CLIN-0001, Task 2 work.

For all Option 3, CLIN-0004 the work period shall be 3:00 p.m. to 11:30 p.m. for surge arrester replacement outages not occurring on a weekend. Surge arrester replacements is not continuous for each work week. Five (5) surge arrester replacement outages associated shall occur every 2-weeks (14 days). Of these five outages, one shall occur each weekend, Saturday or Sunday (two weekend outages total during the 14-day period).

**F. 3 PLACE OF PERFORMANCE (MAY 2014)**

This is a firm-fixed price construction contract for Safety and Reliability Upgrade KSC Institutional Power Systems, Phase 1 of 4, multiple locations throughout Kennedy Space Center, Florida.

**F. 4 DOWNTIME AND EXCAVATION HOLDS (AUG 2014)**

For the purposes of this contract, the Contractor shall allow in his bid for a maximum of **60 days** during which all construction activities will be prohibited. In addition the Contractor shall allow for a maximum of **180 days** during which all excavation and other subsurface activities will be prohibited but other construction activities will be allowed. The Government will provide twenty-four hour notice each time these restrictions are invoked. (Requests to excavate on days designated as “no dig days” must be submitted on KSC Form 50-1, Excavation Category Waiver, 7-10 days in advance of the designated “no dig days”.)

**NASA/KSC SOLICITATION NNK15530485R**  
**SECTION G – CONTRACT ADMINISTRATION DATA**

**G. 1 NASA FEDERAL ACQUISITION REGULATION (48 CFR CHAPTER 18) CLAUSES INCORPORATED BY REFERENCE**

<b>NFS 1852.242-70</b>	<b>TECHNICAL DIRECTION (SEP 1993)</b>
<b>NFS 1852.245-71</b>	<b>INSTALLATION – ACCOUNTABLE GOVERNMENT PROPERTY (JAN 2011)</b>  Fill-In (c)(1): “None”.  Fill-In (c)(3): “See Article J-B-23, Government Property to Be Installed by the Contractor”.  Fill-In (c)(7): “None”
<b>NFS 1852.245-73</b>	<b>FINANCIAL REPORTING OF NASA PROPERTY IN THE CUSTODY OF CONTRACTORS (JAN 2011)</b>  Fill-In (3): OP-OS-IP Industrial Property Officer Kennedy Space Center, Fl 32899
<b>NFS 1852.245-75</b>	<b>PROPERTY MANAGEMENT CHANGES (JAN 2011)</b>
<b>NFS 1852.245-76</b>	<b>LIST OF GOVERNMENT PROPERTY FURNISHED PURSUANT TO FAR 52.245-1 (JAN 2011)</b>  Fill-In (1): Attachment J-B, Article J-B-23, Government Property To Be Installed by the Contractor  Fill-In (2): Various locations throughout KSC
<b>NFS 1852.245-78</b>	<b>PHYSICAL INVENTORY OF CAPITAL PERSONAL PROPERTY (JAN 2011)</b>
<b>NFS 1852.245-82</b>	<b>OCCUPANCY MANAGEMENT REQUIREMENTS (JAN 2011)</b>
<b>NFS 1852.245-83</b>	<b>REAL PROPERTY MANAGEMENT REQUIREMENTS (JAN 2011)</b>

**NASA/KSC SOLICITATION NNK15530485R**  
**SECTION H – SPECIAL CONTRACT REQUIREMENTS**

**H. 1 NASA FEDERAL ACQUISITION REGULATION (48 CFR CHAPTER 18) CLAUSES INCORPORATED BY REFERENCE**

**NFS 1852.223-70 SAFETY AND HEALTH (APR 2002)**

**NFS 1852.223-75 MAJOR BREACH OF SAFETY OR SECURITY (FEB 2002)**

**NFS 1852.225-70 EXPORT LICENSES (FEB 2000)**

Fill-in: NASA's Kennedy Space Center

**NFS 1852.242-72 OBSERVANCE OF LEGAL HOLIDAYS (AUG 1992)**

**H. 2 KSC 52.223-121 REPORTING OF INCIDENTS INVOLVING WORKPLACE VIOLENCE (JUL 2008)**

The contractor shall conduct training on and develop procedures for recognizing, managing and responding to incidents and threats of workplace violence as defined in NASA Policy Directive (NPD) 1600.3. Contractors shall also promptly report all incidents involving workplace violence to the Protective Services Office. If the NASA Workplace Violence Prevention and Response (WVPR) Team Chair and Co Chair determine it is appropriate for the contractor to participate in a WVPR Team meeting, the contractor shall comply with the WVPR Team request. The contractor is also responsible for reporting disposition of the incident reported to the NASA WVPR Team.

This requirement shall flow down to the subcontractors, however the subcontractors shall report up through the prime contractor.

(End of clause)

**H. 3 KSC 52.242-90 CONTROLS APPLICABLE TO CONTRACTORS' ACTIVITIES (SEP 2012)**

The Contractor shall comply with the publications below, and subsequent revision thereof, that the Contracting Officer has indicated as being incorporated in this contract by reference. These publications prescribe regulatory and procedural criteria which are applicable to this contract. The contractor shall promptly take corrective action upon notice of noncompliance from the Contracting Officer or his/her authorized representative(s) with any provision of the publications listed below.

The following compliance documents may be found at:  
<http://tdglobal.ksc.nasa.gov/ReferencedDocuments/>

**NASA/KSC SOLICITATION NNK15530485R**  
**SECTION H – SPECIAL CONTRACT REQUIREMENTS**

Publication	Title
KNPR 8715.2	Comprehensive Emergency Management Plan
KNPR 1600.1	KSC Security Procedural Requirements
KNPR 8500.1	KSC Environmental Requirements
KNPR 8715.3-1	KSC Safety Procedural Requirements Volume 1, Safety Procedural Requirements for Civil Servants/NASA Contractors

<i>Check if Applicable</i>	Publication	Title
X	KNPD 1810.1	KSC Occupational Medicine Program
X	KNPR 1860.1	KSC Ionizing Radiation Protection Program
X	KNPR 1860.2	KSC Nonionizing Radiation Protection Program
X	KNPR 1820.3	KSC Hearing Loss Prevention Program
X	KNPR 1820.4	KSC Respiratory Protection Program
X	KNPR 1840.19	KSC Industrial Hygiene Programs
	45SWI40-201	45th Space Wing Instruction 40-201 Radiation Protection Program
	KNPD 1800.2	KSC Hazard Communication Program
	KNPR 1870.1	KSC Sanitation Program
	KNPR 2570.1	KSC Radio Frequency Spectrum Management Procedural Requirements
	KNPR 4000.1	Supply and Equipment System Manual
	KNPR 6000.1	Transportation Support System
X	KNPR 8715.7	KSC Construction Contractor Safety and Health Practices Procedural Requirements
X	KNPR 8830.1	Facilities and Real Property Management Procedural Requirements

**H. 4 KSC 52.242-93 CONTRACTOR WORKFORCE REPORT – ONSITE CONTRACTORS AND SUBCONTRACTORS (OCT 2006) (ALT 1) (JUL 2011)**

The Contractor shall submit, on a quarterly basis, a manpower report delineating information about its workforce. The report shall include: the contract number, the contractor's total on-site workforce, total on-site union represented employees by bargaining unit; total on-site non-union represented employees, and total off-site workforce performing on the contract. The Contractor shall provide this information

**NASA/KSC SOLICITATION NNK15530485R**  
**SECTION H – SPECIAL CONTRACT REQUIREMENTS**

no later than 10 days after the close of each reporting period which end March 31st, June 30th, September 30th, and December 31st. The report shall be submitted to the Contracting Officer with copies to Workforce Planning and Analysis Office, (Code BA-D) and Industrial Labor Relations Office (Code OP).

The Contractor is required to maintain information on specific Points of Contact (POC) for the contracted effort in a NASA managed database. The database contains POC information for specific Contractor functions to include: Local Contractor Manager and Deputy (senior on-site contract management POCs for top level NASA KSC contact), Contracting Manager (this is the interface on contract matters with the NASA Contracting Officer), HR Manager, Security Manager, Emergency Planning Manager (or identification/contact information for the Contractor manager performing this role), and the person responsible for input of this Contractor information into the database. Within three weeks of contract award the Contractor shall provide the name of the person who will enter the POC information into the NASA database to the Contracting Officer and to NASA Procurement Policy and Review Office, OP-AM, 867-7217. This person must be able to access (or be scheduled to gain access to) KSC systems. Access to the database and instruction will be provided to the Contractor by OP-AM. Upon commencement of the contract the Contractor will be responsible for keeping the POC information pertaining to the specific contract accurate and up to date. Changes to the person responsible for input of this Contractor POC information must be immediately brought to the attention of OP-AM.

(End of clause)

**H. 5 SAFETY AND HEALTH (MAY 2014)**

Pursuant to NFS 1852.223-70, Safety and Health:

- (a) Safety is the freedom from those conditions that can cause death, injury, occupational illness, damage to or loss of equipment or property, or damage to the environment. NASA's safety priority is to protect: the public, astronauts and pilots, the NASA workforce (including contractor employees working on NASA contracts), and high-value equipment and property.
- (b) The Contractor shall take all reasonable safety and occupational health measures in performing this contract. The Contractor shall comply with all Federal, State, and local laws applicable to safety and occupational health and with the safety and occupational health standards, specifications, reporting requirements, and any other relevant requirements of this contract.
- (c) Kennedy Space Center Voluntary Protection Program (VPP)

Kennedy Space Center has implemented a comprehensive safety and health management system, and has demonstrated its commitment to providing and maintaining a safe workplace by successfully completing a rigorous evaluation process to achieve recognition by the Occupational Health and Safety Administration (OSHA) as a "Voluntary Protection Program (VPP) Star Worksite." The VPP program promotes effective worksite-based safety and

**NASA/KSC SOLICITATION NNK15530485R**  
**SECTION H – SPECIAL CONTRACT REQUIREMENTS**

health, encourages employers and employees to reduce the number of occupational safety and health hazards at their places of employment, establishes cooperative relationships between management, labor, and OSHA, and serves to augment limited OSHA resources.

(d) Reporting Procedures for Close Calls and Mishaps

(Also reference NFS 1852.223-70, Safety and Health)

The contractor shall submit a NASA Direct Construction Contractor Mishap Report Form (KDP-F-3645) to the Contracting Officer to document close calls or mishaps and associated corrective actions. In addition, the Contracting Officer will issue a “Notice of Violation” to document safety violations under this contract. The Contractor shall use the form provided to communicate actions taken to correct or mitigate safety/health non-conformance at the job-site, as well as any corrective actions taken to prevent recurrence. This report must be posted on the job site until all corrective actions have been completed.

In the event the non-compliance poses imminent danger, the Contracting Officer may invoke the stop-work order clause in this contract until such time as the immediate hazard has been mitigated. If the Contractor fails or refuses to institute prompt corrective action, the Contracting Officer may invoke the stop-work order clause or any other remedy available to the Government in the event of such failure or refusal.

The Contractor (or subcontractor or supplier) shall insert the “Reporting Procedures for Close Calls and Mishaps” section of this clause, including this paragraph and any applicable Schedule provisions and clauses, with appropriate changes of designations of the parties, in all solicitations and subcontracts of every tier, when the work will be conducted completely or partly on premises owned or controlled by the Government.

**H. 6 SPECIAL ENCLAVE STATUS FOR KENNEDY SPACE CENTER (JUL 2014)**

The Kennedy Space Center (KSC) is part of a special enclave within Brevard County which includes the geographic area consisting of KSC, Cape Canaveral Air Force Station, and Patrick Air Force Base, as specified in the attached wage determination. The Department of Labor (DOL) designated KSC as a part of this special enclave in the 1960’s during construction of the launch complex. The labor classifications and prevailing wages differ significantly from those contained in wage determinations for the surrounding areas; and, the process of determining the proper labor classifications for work to be performed may differ significantly from that in a non-enclave environment. Offerors should contact the DOL for instructions concerning selection of proper labor classifications for all KSC construction projects within this special enclave. The DOL local office phone numbers are (321) 242-1851/office and (321) 614-8823/mobile.

The selection of the proper labor classifications from the solicitation’s wage determination for the pricing of bids/proposals is the responsibility of the offeror in consultation with the DOL. Post award the contractor should continue to be aware of any potential impact KSC’s special enclave status might have during contract performance (e.g. contract modifications). It is incumbent upon the offeror to make

**NASA/KSC SOLICITATION NNK15530485R**  
**SECTION H – SPECIAL CONTRACT REQUIREMENTS**

potential subcontractors aware of KSC's special enclave status and to instruct them to contact DOL for instructions for choosing the proper labor classifications. The Agency will not make any official determination as to the proper labor classifications for work described in this solicitation.

The successful offeror shall be solely responsible for the employment of workers with the proper skills and payment of them in accordance with FAR 52.222-6, Davis-Bacon Act, and the solicitation's wage determination. The Agency will monitor contractor compliance in accordance with 29 CFR 5.5. Non-compliance will be reported to the DOL. DOL will determine compliance with the Act and decide on enforcement actions. Any disputes concerning labor standards requirements will be handled by the DOL in accordance with FAR 52.222-14, Disputes Concerning Labor Standards.

**NASA/KSC SOLICITATION NNK15530485R**  
**SECTION I – CONTRACT CLAUSES**

**I. 1 CLAUSES INCORPORATED BY REFERENCE (52.252-2) (FEB 1998)**

This document incorporates one or more clauses by reference, with the same force and effect as if they were given in full text. Upon request, the Contracting Officer will make their full text available. Also, the full text of a clause may be accessed electronically at these addresses:

<http://prod.nais.nasa.gov/cgi-bin/nais/index.cgi>  
<http://ec.msfc.nasa.gov/hq/library/v-reg.htm>.

**I. 2 LISTING OF FEDERAL ACQUISITION REGULATION (48 CFR CHAPTER 1)  
CLAUSES INCORPORATED BY REFERENCE**

<u>CLAUSE NO.</u>	<u>TITLE</u>
<b>FAR 52.202-1</b>	<b>DEFINITIONS (JAN 2012)</b>
<b>FAR 52.203-3</b>	<b>GRATUITIES (APR 1984)</b>
<b>FAR 52.203-5</b>	<b>COVENANT AGAINST CONTINGENT FEES (APR 1984)</b>
<b>FAR 52.203-6</b>	<b>RESTRICTIONS ON SUBCONTRACTOR SALES TO THE GOVERNMENT (SEP 2006)</b>
<b>FAR 52.203-7</b>	<b>ANTI-KICKBACK PROCEDURES (OCT 2010)</b>
<b>FAR 52.203-8</b>	<b>CANCELLATION, RESCISSION, AND RECOVERY OF FUNDS FOR ILLEGAL OR IMPROPER ACTIVITY (JAN 1997)</b>
<b>FAR 52.203-10</b>	<b>PRICE OR FEE ADJUSTMENTS FOR ILLEGAL OR IMPROPER ACTIVITY (JAN 1997)</b>
<b>FAR 52.203-12</b>	<b>LIMITATION ON PAYMENTS TO INFLUENCE CERTAIN FEDERAL TRANSACTIONS (OCT 2010)</b>
<b>FAR 52.203-13</b>	<b>CONTRACTOR CODE OF BUSINESS ETHICS AND CONDUCT (APR 2010)</b>
<b>FAR 52.203-14</b>	<b>DISPLAY OF HOTLINE POSTER(S) (DEC 2007)</b>
	Fill-In: b(3) Inspector General Hotline Poster(s) may be obtained from NASA Office of Inspector General, Code W, Washington, DC, 20546-0001, (202)358-1220
<b>FAR 52.204-4</b>	<b>PRINTED OR COPIED DOUBLE-SIDED ON POSTCONSUMER FIBER CONTENT PAPER (MAY 2011)</b>
<b>FAR 52.204-9</b>	<b>PERSONAL IDENTITY VERIFICATION OF CONTRACTOR PERSONNEL (JAN 2011)</b>
<b>FAR 52.204-10</b>	<b>REPORTING EXECUTIVE COMPENSATION AND FIRST-TIER SUBCONTRACT AWARDS (JUL 2013)</b>
<b>FAR 52.204-13</b>	<b>SYSTEM FOR AWARD MANAGEMENT MAINTENANCE (JUL 2013)</b>



**NASA/KSC SOLICITATION NNK15530485R**  
**SECTION I – CONTRACT CLAUSES**

- FAR 52.209-6 PROTECTING THE GOVERNMENT'S INTEREST WHEN SUBCONTRACTING WITH CONTRACTORS DEBARRED SUSPENDED, OR PROPOSED FOR DEBARMENT (AUG 2013)**
- FAR 52.209-9 UPDATES OF PUBLICLY AVAILABLE INFORMATION REGARDING RESPONSIBILITY MATTERS (JUL 2013)**
- FAR 52.210-1 MARKET RESEARCH (APR 2011)**
- FAR 52.215-2 AUDIT AND RECORDS – NEGOTIATION (OCT 2010)**
- FAR 52.215-8 ORDER OF PRECEDENCE – UNIFORM CONTRACT FORMAT (OCT 1997)**
- FAR 52.215-10 PRICE REDUCTION FOR DEFECTIVE CERTIFIED COST OR PRICING DATA (AUG 2011)**
- FAR 52.215-12 SUBCONTRACTOR CERTIFIED COST OR PRICING DATA (AUG 2011)**
- FAR 52.215-21 REQUIREMENTS FOR CERTIFIED COST OR PRICING DATA AND DATA OTHER THAN CERTIFIED COST OR PRICING DATA – MODIFICATIONS (OCT 2010) (ALTERNATE III)(OCT 1997)**

Fill-In: (c) Submit the cost portion of the proposal via the following electronic media:  
submit via e-mail in MS Excel format

- FAR 52.215-21 REQUIREMENTS FOR CERTIFIED COST OR PRICING DATA AND DATA OTHER THAN CERTIFIED COST OR PRICING DATA – MODIFICATIONS (OCT 2010) (ALTERNATE IV)(OCT 2010)**

Fill-In: (b) Cost data (e.g., established catalog or market prices, vendor quotes, sales to governmental and non-governmental entities, etc) to the extent necessary for the Contracting Officer to determine a fair and reasonable price. All cost/pricing data shall be submitted in MS Excel format. Access to records necessary to permit an adequate evaluation of the proposed price shall be provided the Contracting Officer.

- FAR 52.219-4 NOTICE OF PRICE EVALUATION PREFERENCE FOR HUBZONE SMALL BUSINESS CONCERNS (JAN 2011) (ALTERNATE 1) (JAN 2011)**
- FAR 52.219-8 UTILIZATION OF SMALL BUSINESS CONCERNS (JUL 2013)**
- FAR 52.219-16 LIQUIDATED DAMAGES - SUBCONTRACTING PLAN (JAN 1999)**
- FAR 52.219-28 POST-AWARD SMALL BUSINESS PROGRAM REREPRESENTATION (JUL 2013)**
- FAR 52.222-1 NOTICE TO THE GOVERNMENT OF LABOR DISPUTES (FEB 1997)**
- FAR 52.222-3 CONVICT LABOR (JUN 2003)**
- FAR 52.222-4 CONTRACT WORK HOURS AND SAFETY STANDARDS ACT—OVERTIME COMPENSATION (JUL 2005)**
- FAR 52.222-6 DAVIS-BACON ACT (JUL 2005)**

**NASA/KSC SOLICITATION NNK15530485R**  
**SECTION I – CONTRACT CLAUSES**

<b>FAR 52.222-7</b>	<b>WITHHOLDING OF FUNDS (FEB 1988)</b>
<b>FAR 52.222-8</b>	<b>PAYROLLS AND BASIC RECORDS (JUN 2010)</b>
<b>FAR 52.222-9</b>	<b>APPRENTICES AND TRAINEES (JUL 2005)</b>
<b>FAR 52.222-10</b>	<b>COMPLIANCE WITH COPELAND ACT REQUIREMENTS (FEB 1988)</b>
<b>FAR 52.222-11</b>	<b>SUBCONTRACTS (LABOR STANDARDS) (JUL 2005)</b>
<b>FAR 52.222-12</b>	<b>CONTRACT TERMINATION--DEBARMENT (FEB 1988)</b>
<b>FAR 52.222-13</b>	<b>COMPLIANCE WITH DAVIS-BACON AND RELATED ACT REGULATIONS (FEB 1988)</b>
<b>FAR 52.222-14</b>	<b>DISPUTES CONCERNING LABOR STANDARDS (FEB 1988)</b>
<b>FAR 52.222-15</b>	<b>CERTIFICATION OF ELIGIBILITY (FEB 1988)</b>
<b>FAR 52.222-21</b>	<b>PROHIBITION OF SEGREGATED FACILITIES (FEB 1999)</b>
<b>FAR 52.222-26</b>	<b>EQUAL OPPORTUNITY (MAR 2007)</b>
<b>FAR 52.222-27</b>	<b>AFFIRMATIVE ACTION COMPLIANCE REQUIREMENTS FOR CONSTRUCTION (FEB 1999)</b>
<b>FAR 52.222-35</b>	<b>EQUAL OPPORTUNITY FOR VETERANS (SEP 2010)</b>
<b>FAR 52.222-36</b>	<b>AFFIRMATIVE ACTION FOR WORKERS WITH DISABILITIES (OCT 2010)</b>
<b>FAR 52.222-37</b>	<b>EMPLOYMENT REPORTS ON VETERANS (SEP 2010)</b>
<b>FAR 52.222-40</b>	<b>NOTIFICATION OF EMPLOYEE RIGHTS UNDER THE NATIONAL LABOR RELATIONS ACT (DEC 2010)</b>
<b>FAR 52.222-50</b>	<b>COMBATING TRAFFICKING IN PERSONS (FEB 2009)</b>
<b>FAR 52.222-54</b>	<b>EMPLOYMENT ELIGIBILITY VERIFICATION (SEP 2013)</b>
<b>FAR 52.222-99</b>	<b>ESTABLISHING A MINIMUM WAGE FOR CONTRACTORS (JUN 2014) (DEVIATION)</b>
<b>FAR 52.223-2</b>	<b>AFFIRMATIVE PROCUREMENT OF BIOBASED PRODUCTS UNDER SERVICE AND CONSTRUCTION CONTRACTS (SEP 2013)</b>
<b>FAR 52.223-3</b>	<b>HAZARDOUS MATERIAL IDENTIFICATION AND MATERIAL SAFETY DATA (JAN 1997) - ALTERNATE 1 (JUL 1995)</b>
<b>FAR 52.223-5</b>	<b>POLLUTION PREVENTION AND RIGHT-TO-KNOW INFORMATION (MAY 2011)</b>
<b>FAR 52.223-6</b>	<b>DRUG-FREE WORKPLACE (MAY 2001)</b>
<b>FAR 52.223-15</b>	<b>ENERGY EFFICIENCY IN ENERGY-CONSUMING PRODUCTS (DEC 2007)</b>
<b>FAR 52.223-17</b>	<b>AFFIRMATIVE PROCUREMENT OF EPA-DESIGNATED ITEMS IN SERVICE AND CONSTRUCTION CONTRACTS (MAY 2008)</b>
<b>FAR 52.223-18</b>	<b>ENCOURAGING CONTRACTOR POLICIES TO BAN TEXT MESSAGING WHILE DRIVING (AUG 2011)</b>

**NASA/KSC SOLICITATION NNK15530485R**  
**SECTION I – CONTRACT CLAUSES**

- FAR 52.225-13 RESTRICTIONS ON CERTAIN FOREIGN PURCHASES (JUN 2008)**
- FAR 52.227-1 AUTHORIZATION AND CONSENT (DEC 2007)**
- FAR 52.227-2 NOTICE AND ASSISTANCE REGARDING PATENT AND COPYRIGHT INFRINGEMENT (DEC 2007)**
- FAR 52.227-4 PATENT INDEMNITY - CONSTRUCTION CONTRACTS (DEC 2007)**
- FAR 52.228-2 ADDITIONAL BOND SECURITY (OCT 1997)**
- FAR 52.228-5 INSURANCE - WORK ON A GOVERNMENT INSTALLATION (JAN 1997)**
- FAR 52.228-11 PLEDGES OF ASSETS (JAN 2012)**
- FAR 52.228-12 PROSPECTIVE SUBCONTRACTOR REQUESTS FOR BONDS (OCT 1995)**
- FAR 52.228-14 IRREVOCABLE LETTER OF CREDIT (DEC 1999)**
- FAR 52.228-15 PERFORMANCE AND PAYMENT BONDS – CONSTRUCTION (OCT 2010)**
- FAR 52.229-3 FEDERAL, STATE AND LOCAL TAXES (FEB 2013)**
- FAR 52.232-5 PAYMENTS UNDER FIXED-PRICE CONSTRUCTION CONTRACTS (SEP 2002)**
- FAR 52.232-17 INTEREST (OCT 2010)**
- FAR 52.232-18 AVAILABILITY OF FUNDS (APR 1984)**
- FAR 52.232-23 ASSIGNMENT OF CLAIMS (JAN 1986)**
- FAR 52.232-27 PROMPT PAYMENT FOR CONSTRUCTION CONTRACTS (JUL 2013)**

<b>Submit Invoices To:</b>	
1 - Original	NASA Shared Services Center (NSSC) Financial Management Division (FMD) – Accounts Payable Bldg 1111, C. Road Stennis Space Center, MS 39529 FAX: 866-209-5415 Email: <a href="mailto:NSSC-AccountsPayable@nasa.gov">NSSC-AccountsPayable@nasa.gov</a>
1 - Copy	NASA John F. Kennedy Space Center Procurement Office, Code OP-ES-B Kennedy Space Center, FL 32899

- FAR 52.232-33 PAYMENT BY ELECTRONIC FUNDS TRANSFER – SYSTEM FOR AWARD MANAGEMENT (JUL 2013)**

Any questions related to payment via Electronic Funds Transfer (EFT) should be directed to:

Designated Paying Office  
NASA Shared Services Center (NSSC)

**NASA/KSC SOLICITATION NNK15530485R**  
**SECTION I – CONTRACT CLAUSES**

Financial Management Division (FMD) - Accounts Payable  
Bldg 1111, C. Road  
Stennis Space Center, MS 39529  
Email: [NSSC-AccountsPayable@nasa.gov](mailto:NSSC-AccountsPayable@nasa.gov)  
Fax: 866-209-5415

- FAR 52.233-1 DISPUTES (JUL 2002)**
- FAR 52.233-1 DISPUTES (JUL 2002) (ALTERNATE 1)(DEC 1991)**
- FAR 52.233-3 PROTEST AFTER AWARD (AUG 1996)**
- FAR 52.233-4 APPLICABLE LAW FOR BREACH OF CONTRACT CLAIMS (OCT 2004)**
- FAR 52.236-1 PERFORMANCE OF WORK BY THE CONTRACTOR (APR 1984)**
- [Fill-In: Fifteen Percent (15%)]
- FAR 52.236-2 DIFFERING SITE CONDITIONS (APR 1984)**
- FAR 52.236-3 SITE INVESTIGATION AND CONDITIONS AFFECTING THE WORK (APR 1984)**
- FAR 52.236-5 MATERIAL AND WORKMANSHIP (APR 1984)**
- FAR 52.236-6 SUPERINTENDENCE BY THE CONTRACTOR (APR 1984)**
- FAR 52.236-7 PERMITS AND RESPONSIBILITIES (NOV 1991)**
- FAR 52.236-8 OTHER CONTRACTS (APR 1984)**
- FAR 52.236-9 PROTECTION OF EXISTING VEGETATION, STRUCTURES, EQUIPMENT, UTILITIES, AND IMPROVEMENTS (APR 1984)**
- FAR 52.236-10 OPERATIONS AND STORAGE AREAS (APR 1984)**
- FAR 52.236-11 USE AND POSSESSION PRIOR TO COMPLETION (APR 1984)**
- FAR 52.236-12 CLEANING UP (APR 1984)**
- FAR 52.236-13 ACCIDENT PREVENTION (NOV 1991) (ALTERNATE 1) (NOV 1991)**
- FAR 52.236-15 SCHEDULES FOR CONSTRUCTION CONTRACTS (APR 1984)**
- FAR 52.236-17 LAYOUT OF WORK (APR 1984)**
- FAR 52.236-21 SPECIFICATIONS AND DRAWINGS FOR CONSTRUCTION (FEB 1997) ALTERNATE I (APR 1984)**
- FAR 52.236-23 RESPONSIBILITY OF THE ARCHITECT-ENGINEER CONTRACTOR (APR 1984)**
- FAR 52.236-24 WORK OVERSIGHT IN ARCHITECT-ENGINEER CONTRACTS (APR 1984)**
- FAR 52.236-25 REQUIREMENTS FOR REGISTRATION OF DESIGNERS (JUN 2003)**
- FAR 52.236-26 PRECONSTRUCTION CONFERENCE (FEB 1995)**
- FAR 52.242-13 BANKRUPTCY (JUL 1995)**
- FAR 52.243-1 CHANGES – FIXED PRICE (AUG 1987) (ALTERNATE III)(APR 1984)**

**NASA/KSC SOLICITATION NNK15530485R**  
**SECTION I – CONTRACT CLAUSES**

<b>FAR 52.243-4</b>	<b>CHANGES (JUN 2007)</b>
<b>FAR 52.243-6</b>	<b>CHANGE ORDER ACCOUNTING (APR 1984)</b>
<b>FAR 52.244-4</b>	<b>SUBCONTRACTORS AND OTHER OUTSIDE ASSOCIATES AND CONSULTANTS (ARCHITECT-ENGINEERING SERVICES) (AUG 1998)</b>
<b>FAR 52.244-6</b>	<b>SUBCONTRACTS FOR COMMERCIAL ITEMS (JUL 2013)</b>
<b>FAR 52.245-1</b>	<b>GOVERNMENT PROPERTY (APR 2012)</b>
<b>FAR 52.245-9</b>	<b>USE AND CHARGES (APR 2012)</b>
<b>FAR 52.246-21</b>	<b>WARRANTY OF CONSTRUCTION (MAR 1994) (ALTERNATE 1) (APR 1984)</b>
<b>FAR 52.248-3</b>	<b>VALUE ENGINEERING – CONSTRUCTION (OCT 2010)</b>
<b>FAR 52.249-2</b>	<b>TERMINATION FOR CONVENIENCE OF THE GOVERNMENT (FIXED-PRICE) (APR 2012) - ALTERNATE I (SEP 1996)</b>
<b>FAR 52.249-10</b>	<b>DEFAULT (FIXED-PRICE CONSTRUCTION) (APR 1984)</b>
<b>FAR 52.253-1</b>	<b>COMPUTER GENERATED FORMS (JAN 1991)</b>

**I. 3 NASA FEDERAL ACQUISITION REGULATION (48 CFR CHAPTER 18) CLAUSES INCORPORATED BY REFERENCE**

<b>NFS 1852.203-70</b>	<b>DISPLAY OF INSPECTOR GENERAL HOTLINE POSTERS (JUN 2001)</b>
<b>NFS 1852.203-71</b>	<b>REQUIREMENT TO INFORM EMPLOYEES OF WHISTLEBLOWER RIGHTS (AUG 2014)</b>
<b>NFS 1852.204-76</b>	<b>SECURITY REQUIREMENTS FOR UNCLASSIFIED INFORMATION TECHNOLOGY RESOURCES (JAN 2011)</b>
<b>NFS 1852.209-72</b>	<b>COMPOSITION OF THE CONTRACTOR (DEC 1988)</b>
<b>NFS 1852.215-84</b>	<b>OMBUDSMAN (NOV 2011)</b>
<b>NFS 1852.219-74</b>	<b>USE OF RURAL AREA SMALL BUSINESSES (SEP 1990)</b>
<b>NFS 1852.219-76</b>	<b>NASA 8 PERCENT GOAL (JUL 1997)</b>
<b>NFS 1852.219-77</b>	<b>NASA MENTOR-PROTÉGÉ PROGRAM (MAY 2009)</b>
<b>NFS 1852.228-75</b>	<b>MINIMUM INSURANCE COVERAGE (OCT 1988)</b>
<b>NFS 1852.236-73</b>	<b>HURRICANE PLAN (DEC 1988)</b>
<b>NFS 1852.237-70</b>	<b>EMERGENCY EVACUATION PROCEDURES (DEC 1988)</b>

**NASA/KSC SOLICITATION NNK15530485R**  
**SECTION I – CONTRACT CLAUSES**

**NFS 1852.237-72    ACCESS TO SENSITIVE INFORMATION (JUN 2005)**

**NFS 1852.237-73    RELEASE OF SENSITIVE INFORMATION (JUN 2005)**

**NFS 1852.243-70    ENGINEERING CHANGE PROPOSALS (OCT 2001)**

**NFS 1852.243-71    SHARED SAVINGS (MAR 1997)**

**I. 4   FAR 52.219-9    SMALL BUSINESS SUBCONTRACTING PLAN (JUL 2013) ALT II   (OCT 2001) (DEVIATION)**

(a) This clause does not apply to small business concerns.

(b) *Definitions.* As used in this clause—

“Alaska Native Corporation (ANC)” means any Regional Corporation, Village Corporation, Urban Corporation, or Group Corporation organized under the laws of the State of Alaska in accordance with the Alaska Native Claims Settlement Act, as amended (43 U.S.C. 1601, *et seq.*) and which is considered a minority and economically disadvantaged concern under the criteria at 43 U.S.C. 1626(e)(1). This definition also includes ANC direct and indirect subsidiary corporations, joint ventures, and partnerships that meet the requirements of 43 U.S.C. 1626 (e)(2).

“Commercial item” means a product or service that satisfies the definition of commercial item in section 2.101 of the Federal Acquisition Regulation.

“Commercial plan” means a subcontracting plan (including goals) that covers the offeror’s fiscal year and that applies to the entire production of commercial items sold by either the entire company or a portion thereof (*e.g.*, division, plant, or product line).

“Electronic Subcontracting Reporting System (eSRS)” means the Government wide, electronic, web-based system for small business subcontracting program reporting. The eSRS is located at <http://www.esrs.gov>.

“Indian tribe” means any Indian tribe, band, group, pueblo, or community, including native villages and native groups (including corporations organized by Kenai, Juneau, Sitka, and Kodiak) as defined in the Alaska Native Claims Settlement Act (43 U.S.C.A. 1601 *et seq.*), that is recognized by the Federal Government as eligible for services from the Bureau of Indian Affairs in accordance with 25 U.S.C. 1452(c). This definition also includes Indian-owned economic enterprises that meet the requirements of 25 U.S.C. 1452(e).

“Individual contract plan” means a subcontracting plan that covers the entire contract period (including option periods), applies to a specific contract, and has goals that are based on the offeror’s planned subcontracting in support of the specific contract except that indirect costs incurred for common or joint purposes may be allocated on a prorated basis to the contract.

**NASA/KSC SOLICITATION NNK15530485R**  
**SECTION I – CONTRACT CLAUSES**

“Master plan” means a subcontracting plan that contains all the required elements of an individual contract plan, except goals, and may be incorporated into individual contract plans, provided the master plan has been approved.

“Subcontract” means any agreement (other than one involving an employer-employee relationship) entered into by a Federal Government prime Contractor or subcontractor calling for supplies or services required for performance of the contract or subcontract.

- (c) The offeror, upon request by the Contracting Officer, shall submit and negotiate a subcontracting plan, where applicable, that separately addresses subcontracting with small business concerns, veteran-owned small business, service-disabled veteran-owned small business, HUBZone small business concerns, small disadvantaged business, and with women-owned small business concerns. If the offeror is submitting an individual contract plan, the plan must separately address subcontracting with small business, veteran-owned small business, service-disabled veteran-owned small business, HUBZone small business, small disadvantaged business, and women-owned small business concerns with a separate part for the basic contract and separate parts for each option (if any). The plan shall be included in and made a part of the resultant contract. The subcontracting plan shall be negotiated within the time specified by the Contracting Officer. Failure to submit and negotiate the subcontracting plan shall make the offeror ineligible for award of a contract.

(d) The offeror’s subcontracting plan shall include the following:

- (1) Goals, expressed in terms of percentages of total planned subcontracting dollars, for the use of small business, veteran-owned small business, service-disabled veteran-owned small business, HUBZone small business, small disadvantaged business, and women-owned small business concerns as subcontractors. The offeror shall include all subcontracts that contribute to contract performance, and may include a proportionate share of products and services that are normally allocated as indirect costs. In accordance with 43 U.S.C. 1626:

(i) Subcontracts awarded to an ANC or Indian tribe shall be counted towards the subcontracting goals for small business and small disadvantaged business (SDB) concerns, regardless of the size or Small Business Administration certification status of the ANC or Indian tribe.

(ii) Where one or more subcontractors are in the subcontract tier between the prime contractor and the ANC or Indian tribe, the ANC or Indian tribe shall designate the appropriate contractor(s) to count the subcontract towards its small business and small disadvantaged business subcontracting goals.

(A) In most cases, the appropriate Contractor is the Contractor that awarded the subcontract to the ANC or Indian tribe.

(B) If the ANC or Indian tribe designates more than one Contractor to count the subcontract toward its goals, the ANC or Indian tribe shall designate only a portion of the total subcontract award to each Contractor. The sum of the amounts

**NASA/KSC SOLICITATION NNK15530485R**  
**SECTION I – CONTRACT CLAUSES**

designated to various Contractors cannot exceed the total value of the subcontract.

- (C) The ANC or Indian tribe shall give a copy of the written designation to the Contracting Officer, the prime Contractor, and the subcontractors in between the prime Contractor and the ANC or Indian tribe within 30 days of the date of the subcontract award.
- (D) If the Contracting Officer does not receive a copy of the ANC's or the Indian tribe's written designation within 30 days of the subcontract award, the Contractor that awarded the subcontract to the ANC or Indian tribe will be considered the designated Contractor.

(2) A statement of—

- (i) Total dollars planned to be subcontracted for an individual contract plan; or the offeror's total projected sales, expressed in dollars, and the total value of projected subcontracts to support the sales for a commercial plan;
  - (ii) Total dollars planned to be subcontracted to small business concerns (including ANC and Indian tribes);
  - (iii) Total dollars planned to be subcontracted to veteran-owned small business concerns;
  - (iv) Total dollars planned to be subcontracted to service-disabled veteran-owned small business;
  - (v) Total dollars planned to be subcontracted to HUBZone small business concerns;
  - (vi) Total dollars planned to be subcontracted to small disadvantaged business concerns (including ANCs and Indian tribes); and
  - (vii) Total dollars planned to be subcontracted to women-owned small business concerns.
- (3) A description of the principal types of supplies and services to be subcontracted, and an identification of the types planned for subcontracting to --
- (i) Small business concerns,
  - (ii) Veteran-owned small business concerns;
  - (iii) Service-disabled veteran-owned small business concerns;



**NASA/KSC SOLICITATION NNK15530485R**  
**SECTION I – CONTRACT CLAUSES**

- (iv) HUBZone small business concerns;
  - (v) Small disadvantaged business concerns, and
  - (vi) Women-owned small business concerns
- (4) A description of the method used to develop the subcontracting goals in paragraph (d)(1) of this clause.
- (5) A description of the method used to identify potential sources for solicitation purposes (*e.g.*, existing company source lists, the Central Contractor Registration database (CCR), veterans service organizations, the National Minority Purchasing Council Vendor Information Service, the Research and Information Division of the Minority Business Development Agency in the Department of Commerce, or small, HUBZone, small disadvantaged, and women-owned small business trade associations). A firm may rely on the information contained in CCR as an accurate representation of a concern's size and ownership characteristics for the purposes of maintaining a small, veteran-owned small, service-disabled veteran-owned small, HUBZone small, small disadvantaged, and women-owned small business source list. Use of CCR as its source list does not relieve a firm of its responsibilities (*e.g.*, outreach, assistance, counseling, or publicizing subcontracting opportunities) in this clause.
- (6) A statement as to whether or not the offeror included indirect costs in establishing subcontracting goals, and a description of the method used to determine the proportionate share of indirect costs to be incurred with --
- (i) Small business concerns (including ANC and Indian tribes);
  - (ii) Veteran-owned small business concerns;
  - (iii) Service-disabled veteran-owned small business concerns;
  - (iv) HUBZone small business concerns;
  - (v) Small disadvantaged business concerns (including ANC and Indian tribes); and
  - (vi) Women-owned small business concerns.
- (7) The name of the individual employed by the offeror who will administer the offeror's subcontracting program, and a description of the duties of the individual.
- (8) A description of the efforts the offeror will make to assure that small business, veteran-owned small business, service-disabled veteran-owned small business, HUBZone small business, small disadvantaged business, and women-owned small business concerns have an equitable opportunity to compete for subcontracts.

**NASA/KSC SOLICITATION NNK15530485R**  
**SECTION I – CONTRACT CLAUSES**

- (9) Assurances that the offeror will include the clause of this contract entitled “Utilization of Small Business Concerns” in all subcontracts that offer further subcontracting opportunities, and that the offeror will require all subcontractors (except small business concerns) that receive subcontracts in excess of \$650,000 (\$1.5 million for construction of any public facility with further subcontracting possibilities) to adopt a plan similar to the plan that complies with the requirements of this clause.
- (10) Assurances that the offeror will --
- (i) Cooperate in any studies or surveys as may be required;
  - (ii) Submit periodic reports so that the Government can determine the extent of compliance by the offeror with the subcontracting plan;
  - (iii) Submit the Individual Subcontracting Report (ISR) and/or the Summary Subcontract Report (SSR), in accordance with the paragraph (I) of this clause using the Electronic Subcontracting Reporting System (eSRS) at <http://www.esrs.gov>. The reports shall provide information on subcontract awards to small business concerns (including ANCs and Indian tribes that are not small businesses), veteran-owned small business concerns, service-disabled veteran-owned small business concerns, HUBZone small business concerns, small disadvantaged business concerns (including ANCs and Indian tribes that have not been certified by the Small Business Administration as small disadvantaged businesses), women-owned small business concerns, and Historically Black Colleges and Universities and Minority Institutions. Reporting shall be in accordance with this clause, or as provided in agency regulations;
  - (iv) Ensure that its subcontractors with subcontracting plans agree to submit the ISR and/or the SSR using eSRS;
  - (v) Provide its prime contract number, its DUNS number, and the e-mail address of the offeror’s official responsible for acknowledging receipt of or rejecting the ISRs, to all first-tier subcontractors with subcontracting plans so they can enter this information into the eSRS when submitting their ISRs; and
  - (vi) Require that each subcontractor with a subcontracting plan provide the prime contract number, its own DUNS number, and the e-mail address of the subcontractor’s official responsible for acknowledging receipt of or rejecting the ISRs, to its subcontractors with subcontracting plans.
- (11) A description of the types of records that will be maintained concerning procedures that have been adopted to comply with the requirements and goals in the plan, including establishing source lists; and a description of the offeror’s efforts to locate small business, veteran-owned small business, service-disabled veteran-owned small business, HUBZone small business, small disadvantaged business, and women-owned small business concerns and award subcontracts to them. The records shall include at least the following (on a plant-wide or company-wide basis, unless otherwise indicated):

**NASA/KSC SOLICITATION NNK15530485R**  
**SECTION I – CONTRACT CLAUSES**

- (i) Source lists (*e.g.*, CCR), guides, and other data that identify small business, veteran-owned small business, service-disabled veteran-owned small business, HUBZone small business, small disadvantaged business, and women-owned small business concerns.
- (ii) Organizations contacted in an attempt to locate sources that are small business, veteran-owned small business, service-disabled veteran-owned small business, HUBZone small business, small disadvantaged business, or women-owned small business concerns.
- (iii) Records on each subcontract solicitation resulting in an award of more than \$150,000, indicating --
  - (A) Whether small business concerns were solicited and if not, why not;
  - (B) Whether veteran-owned small business concerns were solicited and, if not, why not;
  - (C) Whether service-disabled veteran-owned small business concerns were solicited and, if not, why not;
  - (D) Whether HUBZone small business concerns were solicited and, if not, why not;
  - (E) Whether small disadvantaged business concerns were solicited and if not, why not;
  - (F) Whether women-owned small business concerns were solicited and if not, why not; and
  - (G) If applicable, the reason award was not made to a small business concern.
- (iv) Records of any outreach efforts to contact --
  - (A) Trade associations;
  - (B) Business development organizations;
  - (C) Conferences and trade fairs to locate small, HUBZone small, small disadvantaged, and women-owned small business sources; and
  - (D) Veterans service organizations.
- (v) Records of internal guidance and encouragement provided to buyers through --
  - (A) Workshops, seminars, training, etc., and
  - (B) Monitoring performance to evaluate compliance with the program's requirements.

**NASA/KSC SOLICITATION NNK15530485R**  
**SECTION I – CONTRACT CLAUSES**

- (vi) On a contract-by-contract basis, records to support award data submitted by the offeror to the Government, including the name, address, and business size of each subcontractor. Contractors having commercial plans need not comply with this requirement.
- (e) In order to effectively implement this plan to the extent consistent with efficient contract performance, the Contractor shall perform the following functions:
- (1) Assist small business, veteran-owned small business, service-disabled veteran-owned small business, HUBZone small business, small disadvantaged business, and women-owned small business concerns by arranging solicitations, time for the preparation of bids, quantities, specifications, and delivery schedules so as to facilitate the participation by such concerns. Where the Contractor's lists of potential small business, veteran-owned small business, service-disabled veteran-owned small business, HUBZone small business, small disadvantaged business, and women-owned small business subcontractors are excessively long, reasonable effort shall be made to give all such small business concerns an opportunity to compete over a period of time.
  - (2) Provide adequate and timely consideration of the potentialities of small business, veteran-owned small business, service-disabled veteran-owned small business, HUBZone small business, small disadvantaged business, and women-owned small business concerns in all "make-or-buy" decisions.
  - (3) Counsel and discuss subcontracting opportunities with representatives of small business, veteran-owned small business, service-disabled veteran-owned small business, HUBZone small business, small disadvantaged business, and women-owned small business firms.
  - (4) Confirm that a subcontractor representing itself as a HUBZone small business concern is identified as a certified HUBZone small business concern by accessing the Central Contractor Registration (CCR) database or by contacting SBA.
  - (5) Provide notice to subcontractors concerning penalties and remedies for misrepresentations of business status as small, veteran-owned small business, HUBZone small, small disadvantaged or women-owned small business for the purpose of obtaining a subcontract that is to be included as part or all of a goal contained in the Contractor's subcontracting plan.
  - (6) For all competitive subcontracts over the simplified acquisition threshold in which a small business concern received a small business preference, upon determination of the successful subcontract offeror, the Contractor must inform each unsuccessful small business subcontract offeror in writing of the name and location of the apparent successful offeror prior to award of the contract.
- (f) A master plan on a plant or division-wide basis that contains all the elements required by paragraph (d) of this clause, except goals, may be incorporated by reference as a part of the subcontracting plan required of the offeror by this clause; provided --
- (1) The master plan has been approved;

**NASA/KSC SOLICITATION NNK15530485R**  
**SECTION I – CONTRACT CLAUSES**

- (2) The offeror ensures that the master plan is updated as necessary and provides copies of the approved master plan, including evidence of its approval, to the Contracting Officer; and
- (3) Goals and any deviations from the master plan deemed necessary by the Contracting Officer to satisfy the requirements of this contract are set forth in the individual subcontracting plan.
- (g) A commercial plan is the preferred type of subcontracting plan for contractors furnishing commercial items. The commercial plan shall relate to the offeror's planned subcontracting generally, for both commercial and Government business, rather than solely to the Government contract. Once the Contractor's commercial plan has been approved, the Government will not require another subcontracting plan from the same Contractor while the plan remains in effect, as long as the product or service being provided by the Contractor continues to meet the definition of a commercial item. A contractor with a commercial plan shall comply with the reporting requirements stated in paragraph (d)(10) of this clause by submitting one SSR in eSRS for all contracts covered by its commercial plan. This report shall be acknowledged or rejected in eSRS by the Contracting Officer who approved the plan. This report shall be submitted within 30 days after the end of the Government's fiscal year.
- (h) Prior compliance of the offeror with other such subcontracting plans under previous contracts will be considered by the Contracting Officer in determining the responsibility of the offeror for award of the contract.
- (i) A contract may have no more than one plan. When a modification meets the criteria in 19.702 for a plan, or an option is exercised, the goals associated with the modification or option shall be added to those in the existing subcontract plan.
- (j) Subcontracting plans are not required from subcontractors when the prime contract contains the clause at 52.212-5, Contract Terms and Conditions Required to Implement Statutes or Executive Orders—Commercial Items, or when the subcontractor provides a commercial item subject to the clause at 52.244-6, Subcontracts for Commercial Items, under a prime contract.
- (k) The failure of the Contractor or subcontractor to comply in good faith with—
  - (1) The clause of this contract entitled "Utilization Of Small Business Concerns;" or
  - (2) An approved plan required by this clause, shall be a material breach of the contract.
- (l) The Contractor shall submit ISRs and SSRs using the web-based eSRS at <http://www.esrs.gov>. Purchases from a corporation, company, or subdivision that is an affiliate of the prime Contractor or subcontractor are not included in these reports. Subcontract award data reported by prime Contractors and subcontractors shall be limited to awards made to their immediate next-tier subcontractors. Credit cannot be taken for awards made to lower tier subcontractors unless the Contractor or subcontractor has been designated to receive a small business or small disadvantaged business credit from an ANC or Indian tribe. Only subcontracts involving performance in the United States or its outlying areas should be included in these reports with the exception of subcontracts under a contract awarded by the State Department or any other agency that has statutory or regulatory authority to require

**NASA/KSC SOLICITATION NNK15530485R**  
**SECTION I – CONTRACT CLAUSES**

subcontracting plans for subcontracts performed outside the United States and its outlying areas.

(1) *ISR*. This report is not required for commercial plans. The report is required for each contract containing an individual subcontract plan.

- (i) The report shall be submitted semi-annually during contract performance for the periods ending March 31 and September 30. A report is also required for each contract within 30 days of contract completion. Reports are due 30 days after the close of each reporting period, unless otherwise directed by the Contracting Officer. Reports are required when due, regardless of whether there has been any subcontracting activity since the inception of the contract or the previous reporting period.
- (ii) When a subcontracting plan contains separate goals for the basic contract and each option, as prescribed by FAR 19.704(c), the dollar goal inserted on this report shall be the sum of the base period through the current option; for example, for a report submitted after the second option is exercised, the dollar goal would be the sum of the goals for the basic contract, the first option, and the second option.

(iii) The authority to acknowledge receipt or reject the ISR resides—

- (A) In the case of the prime Contractor, with the Contracting Officer; and
- (B) In the case of a subcontract with a subcontracting plan, with the entity that awarded the subcontract.

(2) *SSR*.

(i) Reports submitted under individual contract plans—

- (A) This report encompasses all subcontracting under prime contracts and subcontracts with the awarding agency, regardless of the dollar value of the subcontracts.
- (B) The report may be submitted on a corporate, company or subdivision (*e.g.* plant or division operating as a separate profit center) basis, unless otherwise directed by the agency.
- (C) If a prime Contractor and/or subcontractor is performing work for more than one executive agency, a separate report shall be submitted to each executive agency covering only that agency's contracts, provided at least one of that agency's contracts is over \$650,000 (over \$1.5 million for construction of a public facility) and contains a subcontracting plan. For DoD, a consolidated report shall be submitted for all contracts awarded by military departments/agencies and/or subcontracts awarded by DoD prime Contractors. However, for construction and related maintenance and repair, a separate report shall be submitted for each DoD component.

**NASA/KSC SOLICITATION NNK15530485R**  
**SECTION I – CONTRACT CLAUSES**

- (D) Except for DoD, the report shall be submitted annually for the twelve month period ending September 30. Reports are due 30 days after the close of each reporting period. For DoD, the report shall be submitted semi-annually for the six months ending March 31 and the twelve months ending September 30.
  - (E) Subcontract awards that are related to work for more than one executive agency shall be appropriately allocated.
  - (F) The authority to acknowledge or reject SSRs in eSRS, including SSRs submitted by subcontractors with subcontracting plans, resides with the Government agency awarding the prime contracts unless stated otherwise in the contract.
- (ii) Reports submitted under a commercial plan—
- (A) The report shall include all subcontract awards under the commercial plan in effect during the Government's fiscal year.
  - (B) The report shall be submitted annually, within thirty days after the end of the Government's fiscal year.
  - (C) If a Contractor has a commercial plan and is performing work for more than one executive agency, the Contractor shall specify the percentage of dollars attributable to each agency from which contracts for commercial items were received.
  - (D) The authority to acknowledge or reject SSRs for commercial plans resides with the Contracting Officer who approved the commercial plan.
- (iii) All reports submitted at the close of each fiscal year (both individual and commercial plans) shall include a Year-End Supplementary Report for Small Disadvantaged Businesses. The report shall include subcontract awards, in whole dollars, to small disadvantaged business concerns by North American Industry Classification System (NAICS) Industry Subsector. If the data are not available when the year-end SSR is submitted, the prime Contractor and/or subcontractor shall submit the Year-End Supplementary Report for Small Disadvantaged Businesses within 90 days of submitting the year-end SSR. For a commercial plan, the Contractor may obtain from each of its subcontractors a predominant NAICS Industry Subsector and report all awards to that subcontractor under its predominant NAICS Industry Subsector.

(End of Clause)

*Alternate II (Oct 2001).* As prescribed in [19.708\(b\)\(1\)\(ii\)](#), substitute the following paragraph (c) for paragraph (c) of the basic clause:

- (c) Proposals submitted in response to this solicitation shall include a subcontracting plan that

**NASA/KSC SOLICITATION NNK15530485R**  
**SECTION I – CONTRACT CLAUSES**

separately addresses subcontracting with small business, veteran-owned small business, service-disabled veteran-owned small business, HUBZone small business, small disadvantaged business, and women-owned small business concerns. If the offeror is submitting an individual contract plan, the plan must separately address subcontracting with small business, veteran-owned small business, service-disabled veteran-owned small business, HUBZone small business, small disadvantaged business, and women-owned small business concerns with a separate part for the basic contract and separate parts for each option (if any). The plan shall be included in and made a part of the resultant contract. The subcontracting plan shall be negotiated within the time specified by the Contracting Officer. Failure to submit and negotiate a subcontracting plan shall make the offeror ineligible for award of a contract.

(End of clause)

**I. 5 FAR 52.223-9 ESTIMATE OF PERCENTAGE OF RECOVERED  
MATERIAL CONTENT FOR EPA-DESIGNATED ITEMS (MAY  
2008) ALTERNATE I (MAY 2008)**

(a) *Definitions.* As used in this clause—

“Postconsumer material” means a material or finished product that has served its intended use and has been discarded for disposal or recovery, having completed its life as a consumer item. Postconsumer material is a part of the broader category of “recovered material.”

“Recovered material” means waste materials and by-products recovered or diverted from solid waste, but the term does not include those materials and by-products generated from, and commonly reused within, an original manufacturing process.

- (b) The Contractor shall execute the following certification required by the Resource Conservation and Recovery Act of 1976 ([42 U.S.C. 6962\(i\)\(2\)\(C\)](#)):

**CERTIFICATION**

I, \_\_\_\_\_ (name of certifier), am an officer or employee responsible for the performance of this contract and hereby certify that the percentage of recovered material content for EPA-designated items met the applicable contract specifications or other contractual requirements.

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[Signature of the Officer or Employee]

---

[Typed Name of the Officer or Employee]



**NASA/KSC SOLICITATION NNK15530485R**  
**SECTION I – CONTRACT CLAUSES**

---

[*Title*]

---

[*Name of Company, Firm, or Organization*]

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[*Date*]

(END OF CERTIFICATION)

(c) The Contractor, on completion of this contract, shall—

- (1) Estimate the percentage of the total recovered material content for EPA-designated item(s) delivered and/or used in contract performance, including, if applicable, the percentage of post-consumer material content; and

- (2) Submit this estimate to the Contracting Officer.

(End of clause)

**I. 6    FAR 52.225-11        BUY AMERICAN ACT--CONSTRUCTION MATERIALS  
                                 UNDER TRADE AGREEMENTS (NOV 2013)**

(a) *Definitions.* As used in this clause—

“Caribbean Basin country construction material” means a construction material that—

- (1) Is wholly the growth, product, or manufacture of a Caribbean Basin country; or
- (2) In the case of a construction material that consists in whole or in part of materials from another country, has been substantially transformed in a Caribbean Basin country into a new and different construction material distinct from the materials from which it was transformed.

“Commercially available off-the-shelf (COTS) item”—

- (1) Means any item of supply (including construction material) that is—

- (i) A commercial item (as defined in paragraph (1) of the definition at FAR [2.101](#));

**NASA/KSC SOLICITATION NNK15530485R**  
**SECTION I – CONTRACT CLAUSES**

- (ii) Sold in substantial quantities in the commercial marketplace; and
  - (iii) Offered to the Government, under a contract or subcontract at any tier, without modification, in the same form in which it is sold in the commercial marketplace; and
- (2) Does not include bulk cargo, as defined in section 3 of the Shipping Act of 1984 ([46 U.S.C. App. 1702](#)), such as agricultural products and petroleum products.

“Component” means an article, material, or supply incorporated directly into a construction material. “Construction material” means an article, material, or supply brought to the construction site by the Contractor or subcontractor for incorporation into the building or work. The term also includes an item brought to the site preassembled from articles, materials, or supplies. However, emergency life safety systems, such as emergency lighting, fire alarm, and audio evacuation systems, that are discrete systems incorporated into a public building or work and that are produced as complete systems, are evaluated as a single and distinct construction material regardless of when or how the individual parts or components of those systems are delivered to the construction site. Materials purchased directly by the Government are supplies, not construction material.

“Cost of components” means—

- (1) For components purchased by the Contractor, the acquisition cost, including transportation costs to the place of incorporation into the construction material (whether or not such costs are paid to a domestic firm), and any applicable duty (whether or not a duty-free entry certificate is issued); or
- (2) For components manufactured by the Contractor, all costs associated with the manufacture of the component, including transportation costs as described in paragraph (1) of this definition, plus allocable overhead costs, but excluding profit. Cost of components does not include any costs associated with the manufacture of the construction material.

“Designated country” means any of the following countries:

- (1) A World Trade Organization Government Procurement Agreement country (Armenia, Aruba, Austria, Belgium, Bulgaria, Canada, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hong Kong, Hungary, Iceland, Ireland, Israel, Italy, Japan, Korea (Republic of), Latvia, Liechtenstein, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Singapore, Slovak Republic, Slovenia, Spain, Sweden, Switzerland, Taiwan, or United Kingdom);

**NASA/KSC SOLICITATION NNK15530485R**  
**SECTION I – CONTRACT CLAUSES**

- (2) A Free Trade Agreement country (Australia, Bahrain, Canada, Chile, Colombia, Costa Rica, Dominican Republic, El Salvador, Guatemala, Honduras, Korea (Republic of), Mexico, Morocco, Nicaragua, Oman, Panama, Peru, or Singapore);
- (3) A least developed country (Afghanistan, Angola, Bangladesh, Benin, Bhutan, Burkina Faso, Burundi, Cambodia, Central African Republic, Chad, Comoros, Democratic Republic of Congo, Djibouti, Equatorial Guinea, Eritrea, Ethiopia, Gambia, Guinea, Guinea-Bissau, Haiti, Kiribati, Laos, Lesotho, Liberia, Madagascar, Malawi, Mali, Mauritania, Mozambique, Nepal, Niger, Rwanda, Samoa, Sao Tome and Principe, Senegal, Sierra Leone, Solomon Islands, Somalia, South Sudan, Tanzania, Timor-Leste, Togo, Tuvalu, Uganda, Vanuatu, Yemen, or Zambia); or
- (4) A Caribbean Basin country (Antigua and Barbuda, Aruba, Bahamas, Barbados, Belize, Bonaire, British Virgin Islands, Curacao, Dominica, Grenada, Guyana, Haiti, Jamaica, Montserrat, Saba, St. Kitts and Nevis, St. Lucia, St. Vincent and the Grenadines, Sint Eustatius, Sint Maarten, or Trinidad and Tobago).

“Designated country construction material” means a construction material that is a WTO GPA country construction material, an FTA country construction material, a least developed country construction material, or a Caribbean Basin country construction material.

“Domestic construction material” means—

- (1) An unmanufactured construction material mined or produced in the United States;
- (2) A construction material manufactured in the United States, if—
  - (i) The cost of its components mined, produced, or manufactured in the United States exceeds 50 percent of the cost of all its components. Components of foreign origin of the same class or kind for which nonavailability determinations have been made are treated as domestic; or
  - (ii) The construction material is a COTS item.

“Foreign construction material” means a construction material other than a domestic construction material.

“Free Trade Agreement country construction material” means a construction material that—

**NASA/KSC SOLICITATION NNK15530485R**  
**SECTION I – CONTRACT CLAUSES**

- (1) Is wholly the growth, product, or manufacture of a Free Trade Agreement (FTA) country; or
- (2) In the case of a construction material that consists in whole or in part of materials from another country, has been substantially transformed in a FTA country into a new and different construction material distinct from the materials from which it was transformed.

“Least developed country construction material” means a construction material that—

- (1) Is wholly the growth, product, or manufacture of a least developed country; or
- (2) In the case of a construction material that consists in whole or in part of materials from another country, has been substantially transformed in a least developed country into a new and different construction material distinct from the materials from which it was transformed.

“United States” means the 50 States, the District of Columbia, and outlying areas.

“WTO GPA country construction material” means a construction material that—

- (1) Is wholly the growth, product, or manufacture of a WTO GPA country; or
- (2) In the case of a construction material that consists in whole or in part of materials from another country, has been substantially transformed in a WTO GPA country into a new and different construction material distinct from the materials from which it was transformed.

(b) Construction materials.

- (1) This clause implements the Buy American Act ([41 U.S.C. chapter 83](#)) by providing a preference for domestic construction material. In accordance with [41 U.S.C. 1907](#), the component test of the Buy American Act is waived for construction material that is a COTS item (See FAR [12.505\(a\)\(2\)](#)). In addition, the Contracting Officer has determined that the WTO GPA and Free Trade Agreements (FTAs) apply to this acquisition. Therefore, the Buy American Act restrictions are waived for designated country construction materials.
- (2) The Contractor shall use only domestic or designated country construction material in performing this contract, except as provided in paragraphs (b)(3) and (b)(4) of this clause.

**NASA/KSC SOLICITATION NNK15530485R**  
**SECTION I – CONTRACT CLAUSES**

- (3) The requirement in paragraph (b)(2) of this clause does not apply to information technology that is a commercial item or to the construction materials or components listed by the Government as follows: **None**
- (4) The Contracting Officer may add other foreign construction material to the list in paragraph (b)(3) of this clause if the Government determines that—
- (i) The cost of domestic construction material would be unreasonable. The cost of a particular domestic construction material subject to the restrictions of the Buy American Act is unreasonable when the cost of such material exceeds the cost of foreign material by more than 6 percent;
  - (ii) The application of the restriction of the Buy American Act to a particular construction material would be impracticable or inconsistent with the public interest; or
  - (iii) The construction material is not mined, produced, or manufactured in the United States in sufficient and reasonably available commercial quantities of a satisfactory quality.
- (c) Request for determination of inapplicability of the Buy American Act.
- (1)(i) Any Contractor request to use foreign construction material in accordance with paragraph (b)(4) of this clause shall include adequate information for Government evaluation of the request, including—
- (A) A description of the foreign and domestic construction materials;
  - (B) Unit of measure;
  - (C) Quantity;
  - (D) Price;
  - (E) Time of delivery or availability;
  - (F) Location of the construction project;
  - (G) Name and address of the proposed supplier; and

**NASA/KSC SOLICITATION NNK15530485R**  
**SECTION I – CONTRACT CLAUSES**

- (H) A detailed justification of the reason for use of foreign construction materials cited in accordance with paragraph (b)(3) of this clause.
- (ii) A request based on unreasonable cost shall include a reasonable survey of the market and a completed price comparison table in the format in paragraph (d) of this clause.
- (iii) The price of construction material shall include all delivery costs to the construction site and any applicable duty (whether or not a duty-free certificate may be issued).
- (iv) Any Contractor request for a determination submitted after contract award shall explain why the Contractor could not reasonably foresee the need for such determination and could not have requested the determination before contract award. If the Contractor does not submit a satisfactory explanation, the Contracting Officer need not make a determination.
- (2) If the Government determines after contract award that an exception to the Buy American Act applies and the Contracting Officer and the Contractor negotiate adequate consideration, the Contracting Officer will modify the contract to allow use of the foreign construction material. However, when the basis for the exception is the unreasonable price of a domestic construction material, adequate consideration is not less than the differential established in paragraph (b)(4)(i) of this clause.
- (3) Unless the Government determines that an exception to the Buy American Act applies, use of foreign construction material is noncompliant with the Buy American Act.
- (d) *Data.* To permit evaluation of requests under paragraph (c) of this clause based on unreasonable cost, the Contractor shall include the following information and any applicable supporting data based on the survey of suppliers:

**FOREIGN AND DOMESTIC CONSTRUCTION MATERIALS PRICE COMPARISON**

<b>Construction Material Description</b>	<b>Unit of Measure</b>	<b>Quantity</b>	<b>Price (Dollars)*</b>
<i>Item 1:</i>			
Foreign construction material	_____	_____	_____
Domestic construction material	_____	_____	_____
<i>Item 2:</i>			
Foreign construction material	_____	_____	_____

**NASA/KSC SOLICITATION NNK15530485R**  
**SECTION I – CONTRACT CLAUSES**

Domestic construction material \_\_\_\_\_

*[List name, address, telephone number, and contact for suppliers surveyed. Attach copy of response; if oral, attach summary.]*

*[Include other applicable supporting information.]*

*[\* Include all delivery costs to the construction site and any applicable duty (whether or not a duty-free entry certificate is issued).]*

(End of clause)

**I. 7    FAR 52.232-99        PROVIDING ACCELERATED PAYMENT TO SMALL  
BUSINESS SUBCONTRACTORS (AUG 2012) (DEVIATION)**

This clause implements the temporary policy provided by OMB Policy Memorandum M-12-16, Providing Prompt Payment to Small Business Subcontractors, dated July 11, 2012.

- (a) Upon receipt of accelerated payments from the Government, the contractor is required to make accelerated payments to small business subcontractors to the maximum extent practicable after receipt of a proper invoice and all proper documentation from the small business subcontractor.
- (b) Include the substance of this clause, including this paragraph (b), in all subcontracts with small business concerns.
- (c) The acceleration of payments under this clause does not provide any new rights under the Prompt Payment Act

**I. 8    FAR 52.236-4        PHYSICAL DATA (APR 1984)**

Data and information furnished or referred to below is for the Contractor's information. The Government shall not be responsible for any interpretation of or conclusion drawn from the data or information by the Contractor.

- (a) The indications of physical conditions on the drawings and in the specifications are the result of site investigations by benchmarks for vertical control, elevations, and dimensions from existing features. The Contractor shall be responsible for any surveys, augers, borings, core borings, test pits, probings, or other investigations necessary or incidental to performance of the work.

**NASA/KSC SOLICITATION NNK15530485R**  
**SECTION I – CONTRACT CLAUSES**

(b) **Weather conditions:** The climate of the Cape Canaveral-Kennedy Space Center, Florida area is subtropical with short, mild winters and hot, humid summers. Summer extends from the middle of May to the middle of October with the highest mean temperatures in July and August and the extreme highest temperatures in June. Area thunderstorms occurring during the summer months can be violent with cloud to ground lightning, heavy rain and strong gusty winds. The hurricane season begins in June and ends in December with the highest frequency in August, September, and October. Winter temperatures range from the probability of an 80 degree high during each month to at least one occasion (per winter) of below freezing conditions. Mean average maximum-minimum temperatures and mean average rainfall is 78.6 degrees – 64.0 degrees and 48.53 inches for Cape Canaveral and 79.4 degrees – 65.4 degrees and 53.21 inches for Kennedy Space Center. Detailed climatological data may be obtained from the Patrick Air Force Base Weather Services, 321-853-8485, Patrick Air Force Base, Florida.

(c) **Transportation facilities:**

- (1) **ROAD:** The Cape Canaveral-Kennedy Space Center area is accessible via Florida State Highways 3, 401, 405, 520, and 528 and U.S. Highways 1 and A1A. Perimeter gates to Kennedy Space Center and Cape Canaveral Air Force Station are located at Highway 401 (Gate 1), South Highway 3 (Gate 2), Highway 405 (Gate 3), and North Highway 3 (Gate 4). All gates are normally operational during first shift hours. Off shift hours may vary, and additional schedule or access limitations will be in place during critical launch processing operations.
- (2) **RAIL:** Government trackage connects with the Florida East Coast Railway Company (FEC) at Jay-Jay, Florida, approximately 3 miles north of Titusville, Florida. Shipping destination should be shown as “Titusville, Florida for Kennedy Space Center, Florida.” NASA locomotives move cars between Jay-Jay and various locations on Kennedy Space Center. Side and end ramps are available in the KSC Industrial Area.
- (3) **WATER (OCEAN):** United States Air Force and Navy and commercial dock facilities are available at Port Canaveral, Florida.
- (4) **WATER (OTHER):** The Kennedy Space Center Vehicle Assembly Building (VAB) Marine Terminal and Cape Canaveral Air Force Station barge facilities are accessible via the inland waterway through the Banana River.



**NASA/KSC SOLICITATION NNK15530485R**  
**SECTION I – CONTRACT CLAUSES**

- (5) AIR (COMMERCIAL): Facilities serving the area are located at Melbourne (approximately 42 miles) and Orlando (approximately 55 miles) Florida. Pickup and delivery of air shipments is available.

Detailed information on availability and limitation of facilities, shipping and billing may be obtained from the Supply, Equipment, Transportation and Center Support Branch, Code TA-E1, John F. Kennedy Space Center, NASA, Kennedy Space Center, Florida 32899.

(d) Other: **None**

(End of clause)

**I. 9 FAR 52.252-6 AUTHORIZED DEVIATIONS IN CLAUSES (APR 1984)**

- (a) The use in this solicitation or contract of any Federal Acquisition Regulation (48 CFR Chapter 1) clause with an authorized deviation is indicated by the addition of “(DEVIATION)” after the date of the clause.
- (b) The use in this solicitation or contract of any NASA Federal Acquisition Regulation (48 CFR Chapter 18) clause with an authorized deviation is indicated by the addition of “(DEVIATION)” after the name of the regulation.

(End of clause)

**I. 10 NFS 1852.225-71 RESTRICTION ON FUNDING ACTIVITY WITH CHINA (FEB 2012)**

- (a) Definition - “China” or “Chinese-owned company” means the People’s Republic of China, any company owned by the People’s Republic of China or any company incorporated under the laws of the People’s Republic of China.
- (b) Public Laws 112-10, Section 1340(a) and 112-55, Section 539, restrict NASA from contracting to participate, collaborate, coordinate bilaterally in any way with China or a Chinese-owned company using funds appropriated on or after April 25, 2011. Contracts for commercial and non-developmental items are exempted from the prohibition because they constitute purchase of goods or services that would not involve participation, collaboration, or coordination between the parties.
- (c) This contract may use restricted funding that was appropriated on or after April 25, 2011. The contractor shall not contract with China or Chinese-owned companies for any effort related to this contract except for acquisition of commercial and non-developmental items. If the contractor anticipates making an award to China or Chinese-owned companies, the contractor must contact the contracting officer to determine if funding on this contract can be used for that purpose.

**NASA/KSC SOLICITATION NNK15530485R**  
**SECTION I – CONTRACT CLAUSES**

(d) Subcontracts - The contractor shall include the substance of this clause in all subcontracts made hereunder.

(End of clause)

**I. 11 KSC 52.204-96      SECURITY CONTROLS FOR KSC AND CCAFS (APR 2010)**

A. Identification of Employees

1. Badging

- i. Kennedy Space Center (KSC) badging is mandatory for all Contractor personnel who require access to KSC and National Aeronautics and Space Administration (NASA) facilities located on Cape Canaveral Air Force Station (CCAFS). Badging Requirements are in accordance with KNPR 1600.1, KSC Security Procedural Requirements, located at this public website:  
<http://tdglobal.ksc.nasa.gov/ReferencedDocuments/>. Badges must be obtained before personnel may access the work site and the contractor is responsible for submitting complete, accurate, and timely security investigation and badge request information. The government is not liable for any project delays resulting from the contractor's failure to provide required information or the contractor's inability to achieve favorable investigative results.
- ii. Prior to performance, the contractor shall submit the following information to the Contracting Officer, who will certify and pass the information to the KSC Badging Office.
  - a. Contract number and location of work site(s);
  - b. Contract commencement and completion dates;
  - c. Status as prime or subcontractor; and,
  - d. Name of the contractor designated security/badging official.
  - e. A KSC Form 28-1222V2, (KSC Visitor Badge Request) and/or KSC Form 28-889 (KSC Visitor Badge/Multiple) for all employees requiring access to KSC or CCAFS.

Note: This is the minimum paperwork required for issuance of identification badges.

- iii. Security forms for employee investigations under this clause (Paragraph 2) shall be submitted by the contractor as soon as possible but in no case more than thirty days from initial badging.
- iv. During performance of this contract, issued badges shall be worn by contractor employees and prominently displayed above the waist at all times while on KSC or CCAFS property, unless an exception is granted for safety considerations. Upon termination of an employee, or completion/termination of the contract, the contractor shall immediately return such employee's identification and area permit badge(s) to the KSC Badging Office. NASA identification badges are

**NASA/KSC SOLICITATION NNK15530485R**  
**SECTION I – CONTRACT CLAUSES**

the property of NASA and the Government reserves the right to invalidate/confiscate such badges at any time.

- v. Contractor security/badging officials shall ensure that badges are authorized for official purposes only and in accordance with the requirements of this clause and referenced directives. Abuse or misuse of badging authority may result in a loss of this authority. Employees that fail to comply with NASA regulations may be denied access to KSC.

**2. Investigations**

- i. All persons requiring ongoing access to Federal facilities, to include KSC and CCAFS, are required to complete security forms and submit to a Government investigation. Exceptions may be made for short term visitors (15 days or less). Persons needing access for a period greater than 180 days will require an investigation as described in paragraph 2ii below. Contractors should note that the 180 day period is for an individual's aggregate access across all contracts. If you believe your employee will require ongoing access (current contract and follow on projects) to KSC and/or require unescorted access to facilities under the KSC Area Permit System, you should submit the employee for the investigation described in paragraph A2ii below at the time of initial badging.
- ii. All persons requiring ongoing access to NASA installations are required to have a favorably completed National Agency Check with Written Inquiries (NACI). The following forms must be submitted to the Contracting Officer's Technical Representative (COR), or the COR's designee:
  - a. FD Form 258, Fingerprint Card (Electronic submission at KSC Badging Office)
  - b. Standard Form 85, Questionnaire for Non-Sensitive Positions;
  - c. Optional Form 306, Declaration for Federal Position Employment; and,
  - d. Three (3) copies of KSC Form 20-87, Request for Investigation (Signed by COR or COR's designee)

**B. Badging Restrictions/Categories**

Access to Areas Requiring a KSC Area Permit. Access to certain areas on KSC and CCAFS requires the contractor to have a KSC Area Permit and contractors may be granted "escorted" or "unescorted" access to these areas in accordance with KNPR 1600.1. Unescorted access requires a favorable determination in accordance with the investigative requirements detailed in paragraph A2ii above as well as the completion of mandated safety training.

- i. The NASA Protective Services Office, or its designee, PSSO, will determine whether the person is eligible for unescorted access within 14 business days after the receipt of the properly completed forms.

**NASA/KSC SOLICITATION NNK15530485R**  
**SECTION I – CONTRACT CLAUSES**

- ii. One or more on-site training classes will be required for admittance to the controlled access areas. The total training will not exceed four hours. Contractors may schedule any required training for their employees by contacting the COR or designee. The contractor shall maintain a record of employees receiving the training.

Contractor personnel requiring access to Controlled Areas **C5 Substation Area 67** are required to obtain Temporary Area Access permits (TAA's). The Government will provide interim unescorted access investigations at no cost for **six (6)** contractor employees. Note: TAA permit requests must be submitted to the Construction Office (FAX 867-2496) **at least 24 hours** prior to need date

**I. 12 KSC ON-SITE FACILITIES AND SERVICES (APR 2005)**

(a) UTILITIES

- ☒ There are no utility services available in the work area. All utilities required for performance of the contract work shall be provided by the Contractor.

(b) FACILITIES

- ☒ There are no Government restroom facilities available for use by the Contractor's employees at the work site. The Contractor shall provide all sanitary facilities for the needs of Contractor personnel.

**I. 13 LISTING OF KENNEDY SPACE CENTER REQUIREMENTS SUPPORTING CONTRACT SECTION I (MAY 2014)**

The Kennedy Space Center requirements supporting Contract Section I are listed in Section J, Attachment J-B, KSC Project Specific Requirements.

**I. 14 PERSONAL IDENTITY VERIFICATION CARD ISSUANCE PROCEDURES (MAY 2014)**

The following procedures implement the Federal Information Processing Standards Publication (FIPS PUB) Number 201, Personal Identity Verification (PIV) of Federal Employees and Contractors (Reference FAR Clause 52.204-9, Personal Identity Verification of Contractor Personnel).

FIPS 201 Appendix A graphically displays the following procedure for the issuance of a PIV credential.

**NASA/KSC SOLICITATION NNK15530485R**  
**SECTION I – CONTRACT CLAUSES**

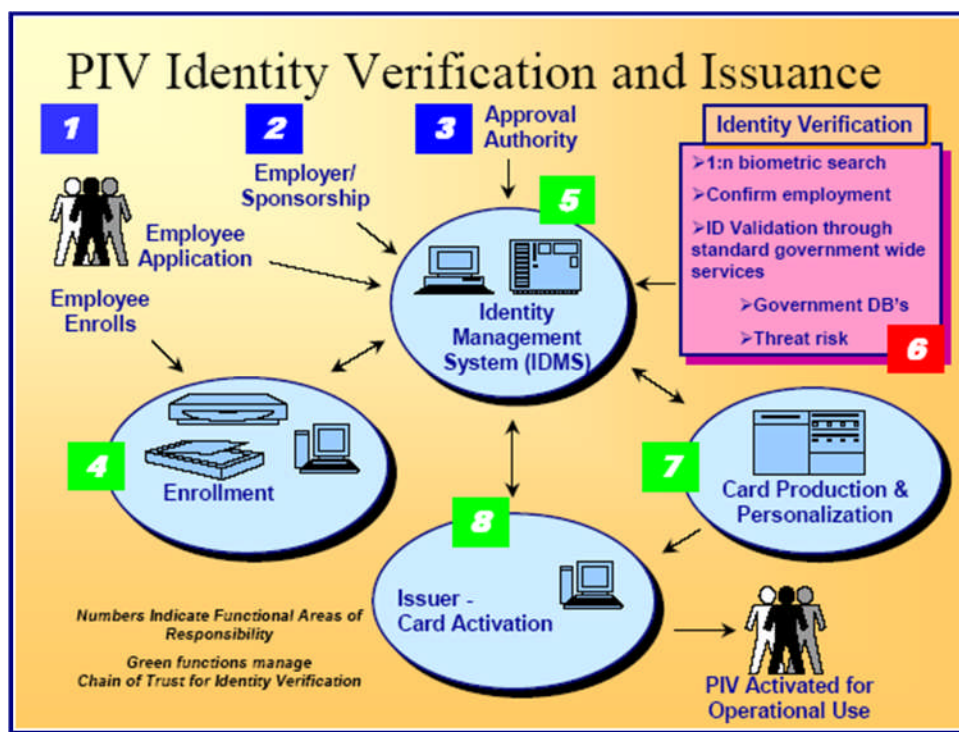


Figure A-1, FIPS 201, Appendix A

The following steps describe the procedures for the NASA Personal Identity Verification Card Issuance (PCI) of a PIV credential:

**Step 1:**

The Contractor's Corporate Security Officer (CSO), Program Manager (PM), or Facility Security Officer (FSO) submits a formal letter that provides a list of contract employees (applicant) names requesting access to the NASA Contracting Officer's Representative (COR). In the case of a foreign national applicant, approval through the NASA Foreign National Management System (NFMMS) must be obtained for the visit or assignment before any processing for a PIV credential can take place. Further, if the foreign national is not under a contract where a COR has been officially designated, the foreign national will provide the information directly to their visit/assignment host, and the host sponsor will fulfill the duties of the COR mentioned herein. In each case, the letter shall provide notification of the contract or foreign national employee's (hereafter the "applicant") full name (first, middle and last), social security number (SSN) or NASA Foreign National Management System Visitor Number if the foreign national does not have a SSN, and date of birth. If the contract employee has a current satisfactorily completed National Agency Check with Inquiries (NACI) or an equivalent or higher degree of background investigation, the letter shall indicate the type of investigation, the agency completing the investigation, and date the investigation was completed. Also, the letter must specify the risk/sensitivity level associated with the position in which each applicant will be working (NPR 1600.1, §4.5 is germane) Further, the letter shall also acknowledge that contract employees may be denied access to NASA information or information systems based on an unsatisfactory background investigation/adjudication.

**NASA/KSC SOLICITATION NNK15530485R**  
**SECTION I – CONTRACT CLAUSES**

After reviewing the letter for completeness and concurring with the risk/sensitivity levels, the COR/host must forward the letter to the Center Chief of Security (CCS). The CCS shall review the OPM databases (e.g., DCII, PIP, et al.), and take appropriate steps to validate the applicant's investigation status. Requirements for a NACI or other investigation shall be initiated only if necessary.

Applicants who do not currently possess the required level of background investigation shall be directed to the e-QIP web site to complete the necessary background investigation forms online. The CCS shall provide to the COR/host information and instructions on how to access the e-QIP for each contract or foreign national employee requiring access

**Step 2:**

Upon acceptance of the letter/background information, the applicant will be advised that in order to complete the investigative process, he or she must appear in-person before the authorized PIV registrar and submit two forms of identity source documents in original form. The identity source documents must come from the list of acceptable documents included in Form I-9, Employment Eligibility Verification, one which must be a Federal<sup>i</sup> or State issued picture identification. Fingerprints will be taken at this time. The applicant must appear **no later than** the entry on duty date.

When the applicant appears, the registrar will electronically scan the submitted documents; any document that appears invalid will be rejected by the registrar. The registrar will capture electronically both a facial image and fingerprints of the applicant. The information submitted by the applicant will be used to create or update the applicant identity record in the Identity Management System (IDMS).

**Step 3:**

Upon the applicant's completion of the investigative document, the CCS reviews the information, and resolves discrepancies with the applicant as necessary. When the applicant has appeared in person and completed fingerprints, the package is electronically submitted to initiate the NACI. The CCS includes a request for feedback on the NAC portion of the NACI at the time the request is submitted.

**Step 4:**

Prior to authorizing physical access of a contractor employee to a federally-controlled facility or access to a Federal information system, the CCS will a National Crime Information Center (NCIC) with an Interstate Identification Index check is/has been performed. In the case of a foreign national, a national check of the Bureau of Immigration and Customs Enforcement (BICE) database will be

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<sup>i</sup> A non-PIV government identification badge, including the NASA Photo Identification Badge, MAY NOT BE USED for the original issuance of a PIV vetted credential

**NASA/KSC SOLICITATION NNK15530485R**  
**SECTION I – CONTRACT CLAUSES**

performed for each applicant. If this process yields negative information, the CCS will immediately notify the COR/host of the determination regarding access made by the CCS.

**Step 5:**

Upon receipt of the completed NAC, the CCS will update IDMS from the NAC portion of the NACI and indicate the result of the suitability determination. If an unsatisfactory suitability determination is rendered, the COR will advise the contractor that the employee is being denied physical access to all federally-controlled facilities and Federal information systems.

Based on a favorable NAC and NCIC/III or BICE check, the CCS will authorize the issuance of a PIV federal credential in the Physical Access Control System (PACS) database. The CCS, based on information provided by the COR/host, will determine what physical access the applicant should be granted once the PIV issues the credential.

**Step 6:**

Using the information provided by the applicant during his or her in-person appearance, the PIV card production facility creates and instantiates the approved PIV card for the applicant with an activation date commensurate with the applicant's start date.

**Step 7:**

The applicant proceeds to the credential issuance facility to begin processing for receipt of his/her federal credential. The applicant provides to the credential issuing operator proof of identity with documentation that meets the requirements of FIPS 201 (DHS Employment Eligibility Verification (Form I-9) documents. These documents **must** be the same documents submitted for registration. The credential issuing operator will verify that the facial image, and optionally reference finger print, matches the enrollment data used to produce the card. Upon verification of identity, the operator will locate the employee's record in the PACS database, and modify the record to indicate the PIV card has been issued. The applicant will select a PIN for use with his or her new PIV card. Although root data is inaccessible to the operator, certain fields (hair color, eye color, et al.) may be modified to more accurately record the employee's information. The applicant proceeds to a kiosk or other workstation to complete activation of the PIV card using the initial PIN entered at card issuance.

**ALTERNATIVE FOR APPLICANTS WHO DO NOT HAVE A COMPLETED AND  
ADJUDICATED NAC AT THE TIME OF ENTRANCE ON DUTY**

Steps 1 through 4 shall be accomplished for all applicants in accordance with the process described above. If the applicant is unable to appear in person until the time of entry on duty, or does not, for any other reason, have a completed and adjudicated NAC portion of the NACI at the time of entrance on duty, the following interim procedures shall apply.

1. If the documents required to submit the NACI have not been completed prior to EOD, the applicant will be instructed to complete all remaining requirements for submission of the

**NASA/KSC SOLICITATION NNK15530485R**  
**SECTION I – CONTRACT CLAUSES**

investigation request. This includes presentation of I-9 documents and completion of fingerprints, if not already accomplished. If the applicant fails to complete these activities as prescribed in NPR 1600.1 (Chapters 3 & 4), it may be considered as failure to meet the conditions required for physical access to a federally-controlled facility or access to a Federal information system, and result in denial of such access.

2. Based on favorable results of the NCIC, the applicant shall be issued a temporary NASA identification card for a period not-to-exceed six months. If at the end of the six month period the NAC results have not been returned, the agency will at that time make a determination if an additional extension will be granted for the temporary identification card.
3. Upon return of the completed NAC, the process will continue from Step 5.



**NASA/KSC SOLICITATION NNK15530485R**  
**SECTION J – LIST OF ATTACHMENTS**

**J. 1 LIST OF ATTACHMENTS**

A. The following documents are attached hereto and made a part of this contract:

Attachment	Title	Date	# Pages
J-A	Project Deliverables	Oct 2014	18
J-B	KSC Project Specific Requirements	Oct 2014	34
J-C	Department of Labor Wage Determination Number FL 140001 09/26/2014 Modification 11	09/26/2014	7
J-D	<b><u>Specification 79K39769</u></b> , titled “Safety and Reliability Upgrade KSC Institutional Power Systems, Phase 1 of 4, (Tasks 1 and 2)”	09/30/2014	444
J-E	<b><u>Specification 79K39771</u></b> , titled “Safety and Reliability Upgrade KSC Institutional Power Systems, Phase 1 of 4, (Task 3)”	09/30/2014	306
J-F	<b><u>Statement of Work 81K06753 Revision A</u></b> , titled “Upgrade EPP (Task 4 Design Build Statement of Work)”	10/09/2014	186
J-G	<b><u>Drawing 79K39767</u></b> , titled “Safety and Reliability Upgrade KSC Institutional Power Systems, Phase 1 of 4, Task 1”	09/29/2014	136
J-H	<b><u>Drawing 79K39768</u></b> , titled “Safety and Reliability Upgrade KSC Institutional Power Systems, Phase 1 of 4, Task 2”	09/26/2014	88
J-I	<b><u>Drawing 79K39770</u></b> , titled “Safety and Reliability Upgrade KSC Institutional Power Systems, Phase 1 of 4, Task 3”	09/26/2014	31
J-J	<b><u>Drawing 81K06752</u></b> , titled “Upgrade Emergency Power Plant”, (Task 4)	02/21/2012	68
J-K	<i>Reference Drawing Only:</i> <b><u>Drawing 98K00386</u></b> , titled “Emergency Power Plant, K6-1091, Russelectric Control Wiring”	10/04/2000	175
J-L	<i>Reference Drawing Only:</i> <b><u>Drawing 98K01564</u></b> , titled “PLC Program (Primary) C5 Emergency Power Plant”	04/15/2004	600
J-M	<i>Reference Drawing Only:</i> <b><u>Drawing 98K01565</u></b> , titled “PLC Program Generator #1 C5 Emergency Power Plant”	04/15/2004	213
J-N	Brand Name JOFOC – Schweitzer Engineering Laboratories	Oct 2014	3
J-O	KSC Visitor Badge Request Form	N/A	1
J-P	Safety and Occupational Health Plan	TBD	TBD
J-Q	Site Specific Safety and Occupational Health Plan	TBD	TBD
J-R	Small Business Subcontracting Plan	TBD	TBD

B. Per FAR 15.204-1(b), Section K will be incorporated, by reference, as part of this contract.

**NASA/KSC SOLICITATION NNK15530485R**  
**SECTION K – REPRESENTATIONS, CERTIFICATIONS, AND OTHER STATEMENTS OF**  
**OFFERORS OR RESPONDENTS**

**K.1 FAR 52.204-8 ANNUAL REPRESENTATIONS AND CERTIFICATIONS**  
**(JAN 2014)**

- (a) (1) The North American Industry Classification System (NAICS) code for this acquisition is **237130, Power and Communication Line and Related Structures Construction.**
- (2) The small business size standard is **\$36.5M**
- (3) The small business size standard for a concern which submits an offer in its own name, other than on a construction or service contract, but which proposes to furnish a product which it did not itself manufacture, is 500 employees.
- (b) (1) If the provision at [52.204-7](#), System for Award Management, is included in this solicitation, paragraph (d) of this provision applies.
- (1) If the provision at [52.204-7](#) is not included in this solicitation, and the offeror is currently registered in the System for Award Management (SAM), and has completed the Representations and Certifications section of SAM electronically, the offeror may choose to use paragraph (d) of this provision instead of completing the corresponding individual representations and certifications in the solicitation. The offeror shall indicate which option applies by checking one of the following boxes:
- ☐ (i) Paragraph (d) applies.
- ☐ (ii) Paragraph (d) does not apply and the offeror has completed the individual representations and certifications in the solicitation.
- (c) (1) The following representations or certifications in SAM are applicable to this solicitation as indicated:
- (h) [52.203-2](#), Certificate of Independent Price Determination. This provision applies to solicitations when a firm-fixed-price contract or fixed-price contract with economic price adjustment is contemplated, unless—
- (A) The acquisition is to be made under the simplified acquisition procedures in [Part 13](#);

**NASA/KSC SOLICITATION NNK15530485R**  
**SECTION K – REPRESENTATIONS, CERTIFICATIONS, AND OTHER STATEMENTS OF**  
**OFFERORS OR RESPONDENTS**

- (B) The solicitation is a request for technical proposals under two-step sealed bidding procedures;  
or
- (C) The solicitation is for utility services for which rates are set by law or regulation.
- (ii) [52.203-11](#), Certification and Disclosure Regarding Payments to Influence Certain Federal Transactions. This provision applies to solicitations expected to exceed \$150,000.
- (iii) [52.204-3](#), Taxpayer Identification. This provision applies to solicitations that do not include the provision at [52.204-7](#), System for Award Management.
- (iv) [52.204-5](#), Women-Owned Business (Other Than Small Business). This provision applies to solicitations that—
- (A) Are not set aside for small business concerns;
- (B) Exceed the simplified acquisition threshold; and
- (C) Are for contracts that will be performed in the United States or its outlying areas.
- (v) [52.209-2](#), Prohibition on Contracting with Inverted Domestic Corporations—Representation. This provision applies to solicitations using funds appropriated in fiscal years 2008, 2009, 2010, or 2012.
- (vi) [52.209-5](#), Certification Regarding Responsibility Matters. This provision applies to solicitations where the contract value is expected to exceed the simplified acquisition threshold.
- (vii) [52.214-14](#), Place of Performance—Sealed Bidding. This provision applies to invitations for bids except those in which the place of performance is specified by the Government.
- (viii) [52.215-6](#), Place of Performance. This provision applies to solicitations unless the place of performance is specified by the Government.
- (ix) [52.219-1](#), Small Business Program Representations (Basic & Alternate I). This provision applies to solicitations when the contract will be performed in the United States or its outlying areas.

**NASA/KSC SOLICITATION NNK15530485R**  
**SECTION K – REPRESENTATIONS, CERTIFICATIONS, AND OTHER STATEMENTS OF OFFERORS OR RESPONDENTS**

- (A) The basic provision applies when the solicitations are issued by other than DoD, NASA, and the Coast Guard.
- (B) The provision with its Alternate I applies to solicitations issued by DoD, NASA, or the Coast Guard.
- (x) [52.219-2](#), Equal Low Bids. This provision applies to solicitations when contracting by sealed bidding and the contract will be performed in the United States or its outlying areas.
- (xi) [52.222-22](#), Previous Contracts and Compliance Reports. This provision applies to solicitations that include the clause at [52.222-26](#), Equal Opportunity.
- (xii) [52.222-25](#), Affirmative Action Compliance. This provision applies to solicitations, other than those for construction, when the solicitation includes the clause at [52.222-26](#), Equal Opportunity.
- (xiii) [52.222-38](#), Compliance with Veterans' Employment Reporting Requirements. This provision applies to solicitations when it is anticipated the contract award will exceed the simplified acquisition threshold and the contract is not for acquisition of commercial items.
- (xiv) [52.223-1](#), Biobased Product Certification. This provision applies to solicitations that require the delivery or specify the use of USDA–designated items; or include the clause at [52.223-2](#), Affirmative Procurement of Biobased Products Under Service and Construction Contracts.
- (xv) [52.223-4](#), Recovered Material Certification. This provision applies to solicitations that are for, or specify the use of, EPA–designated items.
- (xvi) [52.225-2](#), Buy American Act Certificate. This provision applies to solicitations containing the clause at [52.225-1](#).
- (xvii) [52.225-4](#), Buy American Act—Free Trade Agreements—Israeli Trade Act Certificate. (Basic, Alternates I, II, and III.) This provision applies to solicitations containing the clause at [52.225-3](#).
- (A) If the acquisition value is less than \$25,000, the basic provision applies.
- (B) If the acquisition value is \$25,000 or more but is less than \$50,000, the provision with its Alternate I applies.

**NASA/KSC SOLICITATION NNK15530485R**  
**SECTION K – REPRESENTATIONS, CERTIFICATIONS, AND OTHER STATEMENTS OF OFFERORS OR RESPONDENTS**

- (C) If the acquisition value is \$50,000 or more but is less than \$79,507, the provision with its Alternate II applies.
- (D) If the acquisition value is \$79,507 or more but is less than \$100,000, the provision with its Alternate III applies.
- (xviii) [52.225-6](#), Trade Agreements Certificate. This provision applies to solicitations containing the clause at [52.225-5](#).
- (xix) [52.225-20](#), Prohibition on Conducting Restricted Business Operations in Sudan—Certification. This provision applies to all solicitations.
- (xx) [52.225-25](#), Prohibition on Contracting with Entities Engaging in Certain Activities or Transactions Relating to Iran-Representation and Certifications. This provision applies to all solicitations.
- (xxi) [52.226-2](#), Historically Black College or University and Minority Institution Representation. This provision applies to—
- (A) Solicitations for research, studies, supplies, or services of the type normally acquired from higher educational institutions; and
- (B) For DoD, NASA, and Coast Guard acquisitions, solicitations that contain the clause at [52.219-23](#), Notice of Price Evaluation Adjustment for Small Disadvantaged Business Concerns.
- (2) The following certifications are applicable as indicated by the Contracting Officer:
- \_\_\_ (i) [52.219-22](#), Small Disadvantaged Business Status.
- \_\_\_ (A) Basic.
- \_\_\_ (B) Alternate I.
- \_\_\_ (ii) [52.222-18](#), Certification Regarding Knowledge of Child Labor for Listed End Products.
- \_\_\_ (iii) [52.222-48](#), Exemption from Application of the Service Contract Act to Contracts for Maintenance, Calibration, or Repair of Certain Equipment Certification.

**NASA/KSC SOLICITATION NNK15530485R**  
**SECTION K – REPRESENTATIONS, CERTIFICATIONS, AND OTHER STATEMENTS OF**  
**OFFERORS OR RESPONDENTS**

\_\_\_ (iv) [52.222-52](#), Exemption from Application of the Service Contract Act to Contracts for Certain Services–Certification.

X (v) [52.223-9](#), with its Alternate I, Estimate of Percentage of Recovered Material Content for EPA–Designated Products (Alternate I only).

\_\_\_ (vi) [52.227-6](#), Royalty Information.

\_\_\_ (A) Basic.

\_\_\_(B) Alternate I.

\_\_\_ (vii) [52.227-15](#), Representation of Limited Rights Data and Restricted Computer Software.

(b) The offeror has completed the annual representations and certifications electronically via the SAM website accessed through <https://www.acquisition.gov>. After reviewing the SAM database information, the offeror verifies by submission of the offer that the representations and certifications currently posted electronically that apply to this solicitation as indicated in paragraph (c) of this provision have been entered or updated within the last 12 months, are current, accurate, complete, and applicable to this solicitation (including the business size standard applicable to the NAICS code referenced for this solicitation), as of the date of this offer and are incorporated in this offer by reference (see FAR [4.1201](#)); except for the changes identified below [*offeror to insert changes, identifying change by clause number, title, date*]. These amended representation(s) and/or certification(s) are also incorporated in this offer and are current, accurate, and complete as of the date of this offer.

FAR CLAUSE #	TITLE	DATE	CHANGE
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_____	_____	_____	_____
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Any changes provided by the offeror are applicable to this solicitation only, and do not result in an update to the representations and certifications posted on SAM.

(End of provision)

**NASA/KSC SOLICITATION NNK15530485R**  
**SECTION K – REPRESENTATIONS, CERTIFICATIONS, AND OTHER STATEMENTS OF**  
**OFFERORS OR RESPONDENTS**

**K.2 FAR 52.209-7 INFORMATION REGARDING RESPONSIBILITY MATTERS**  
**(JUL 2013)**

(a) *Definitions.* As used in this provision—

“Administrative proceeding” means a non-judicial process that is adjudicatory in nature in order to make a determination of fault or liability (*e.g.*, Securities and Exchange Commission Administrative Proceedings, Civilian Board of Contract Appeals Proceedings, and Armed Services Board of Contract Appeals Proceedings). This includes administrative proceedings at the Federal and State level but only in connection with performance of a Federal contract or grant. It does not include agency actions such as contract audits, site visits, corrective plans, or inspection of deliverables.

“Federal contracts and grants with total value greater than \$10,000,000” means—

- (1) The total value of all current, active contracts and grants, including all priced options; and
- (2) The total value of all current, active orders including all priced options under indefinite-delivery, indefinite-quantity, 8(a), or requirements contracts (including task and delivery and multiple-award Schedules).

“Principal” means an officer, director, owner, partner, or a person having primary management or supervisory responsibilities within a business entity (*e.g.*, general manager; plant manager; head of a division or business segment; and similar positions).

- (b) The offeror [ ] has [ ] does not have current active Federal contracts and grants with total value greater than \$10,000,000.
- (c) If the offeror checked “has” in paragraph (b) of this provision, the offeror represents, by submission of this offer, that the information it has entered in the Federal Awardee Performance and Integrity Information System (FAPIIS) is current, accurate, and complete as of the date of submission of this offer with regard to the following information:
- (1) Whether the offeror, and/or any of its principals, has or has not, within the last five years, in connection with the award to or performance by the offeror of a Federal contract or grant, been the subject of a proceeding, at the Federal or State level that resulted in any of the following dispositions:
    - (i) In a criminal proceeding, a conviction.
    - (ii) In a civil proceeding, a finding of fault and liability that results in the payment of a monetary fine, penalty, reimbursement, restitution, or damages of \$5,000 or more.

**NASA/KSC SOLICITATION NNK15530485R**  
**SECTION K – REPRESENTATIONS, CERTIFICATIONS, AND OTHER STATEMENTS OF**  
**OFFERORS OR RESPONDENTS**

(iii) In an administrative proceeding, a finding of fault and liability that results in—

(A) The payment of a monetary fine or penalty of \$5,000 or more; or

(B) The payment of a reimbursement, restitution, or damages in excess of \$100,000.

(iv) In a criminal, civil, or administrative proceeding, a disposition of the matter by consent or compromise with an acknowledgment of fault by the Contractor if the proceeding could have led to any of the outcomes specified in paragraphs (c)(1)(i), (c)(1)(ii), or (c)(1)(iii) of this provision.

(2) If the offeror has been involved in the last five years in any of the occurrences listed in (c)(1) of this provision, whether the offeror has provided the requested information with regard to each occurrence.

(d) The offeror shall post the information in paragraphs (c)(1)(i) through (c)(1)(iv) of this provision in FAPIIS as required through maintaining an active registration in the System for Award Management database via <https://www.acquisition.gov> (see [52.204-7](#)).

(End of provision)

**K.3    NFS 1852.225-72    RESTRICTION ON FUNDING ACTIVITY WITH CHINA –**  
**REPRESENTATION (FEB 2012)**

(a) Definition - “China” or “Chinese-owned” means the People’s Republic of China, any company owned by the People’s Republic of China or any company incorporated under the laws of the People’s Republic of China.

(b) Public Laws 112-10, Section 1340(a) and 112-55, Section 536, restrict NASA from contracting to participate, collaborate, or coordinate bilaterally in any way with China or a Chinese-owned company with funds appropriated on or after April 25, 2011. Contracts for commercial and non-developmental items are excepted from the prohibition as they constitute purchase of goods or services that would not involve participation, collaboration, or coordination between the parties.

(c) Representation. By submission of its offer, the offeror represents that the offeror is not China or a Chinese-owned company.

(End of provision)



**NASA/KSC SOLICITATION NNK15530485R**  
**SECTION L – INSTRUCTIONS, CONDITIONS, AND NOTICES TO OFFERORS**  
**OR RESPONDENTS**

**L. 1 SOLICITATION PROVISIONS INCORPORATED BY REFERENCE (FAR 52.252-1)**  
**(FEB 1998)**

This solicitation incorporates one or more solicitation provisions by reference, with the same force and effect as if they were given in full text. Upon request, the Contracting Officer will make their full text available. The offeror is cautioned that the listed provisions may include blocks that must be completed by the offeror and submitted with its quotation or offer. In lieu of submitting the full text of those provisions, the offeror may identify the provision by paragraph identifier and provide the appropriate information with its quotation or offer. Also, the full text of a solicitation provision may be accessed electronically at these addresses:

<http://prod.nais.nasa.gov/cgi-bin/nais/index.cgi>  
<http://ec.msfc.nasa.gov/hq/library/v-reg.htm>

(End of provision)

**L.2 LISTING OF FEDERAL ACQUISITION REGULATION (48 CFR CHAPTER 1)**  
**PROVISIONS INCORPORATED BY REFERENCE**

**PROVISION**

**TITLE**

**FAR 52.204-7            SYSTEM FOR AWARD MANAGEMENT (JUL 2013)**

**FAR 52.211-6            BRAND NAME OR EQUAL (AUG 1999)**

**FAR 52.215-1            INSTRUCTIONS TO OFFERORS - COMPETITIVE**  
**ACQUISITION (JAN 2004)**

**FAR 52.222-23           NOTICE OF REQUIREMENT FOR AFFIRMATIVE ACTION**  
**TO ENSURE EQUAL EMPLOYMENT OPPORTUNITY FOR**  
**CONSTRUCTION (FEB 1999)**

Fill-In: (b) Minority participation goal: 10.7%  
              Female participation goal: 6.9%

Fill-In: (e) Kennedy Space Center and Cape Canaveral Air Force  
              Station, Brevard County, Florida

**FAR 52.228-1            BID GUARANTEE (SEP 1996)**

Fill-In: para (c) The amount of the bid guarantee shall be 20% of the  
              bid price or \$3M, whichever is less.

**NASA/KSC SOLICITATION NNK15530485R**  
**SECTION L – INSTRUCTIONS, CONDITIONS, AND NOTICES TO OFFERORS**  
**OR RESPONDENTS**

**FAR 52.236-28            PREPARATION OF PROPOSALS – CONSTRUCTION (OCT 1997)**

**L.3    LISTING OF FEDERAL ACQUISITION REGULATION (48 CFR CHAPTER 1)**  
**PROVISIONS INCORPORATED IN FULL TEXT**

**FAR 52.211-1            AVAILABILITY OF SPECIFICATIONS LISTED IN THE GSA**  
**INDEX OF FEDERAL SPECIFICATIONS, STANDARDS AND**  
**COMMERCIAL ITEMS DESCRIPTIONS, FPMR Part 101-29**  
**(AUG 1998)**

- (a) The GSA Index of Federal Specifications, Standards and Commercial Item Descriptions, FPMR Part 101-29, and copies of specifications, standards, and commercial item descriptions cited in this solicitation may be obtained for a fee by submitting a request to—

GSA Federal Supply Service  
Specifications Section, Suite 8100  
470 East L'Enfant Plaza, SW  
Washington, DC 20407  
Telephone (202) 619-8925  
Facsimile (202) 619-8978.

- (b) If the General Services Administration, Department of Agriculture, or Department of Veterans Affairs issued this solicitation, a single copy of specifications, standards, and commercial item descriptions cited in this solicitation may be obtained free of charge by submitting a request to the addressee in paragraph (a) of this provision. Additional copies will be issued for a fee.

(End of provision)

**FAR 52.211-3            AVAILABILITY OF SPECIFICATIONS NOT LISTED IN THE**  
**GSA INDEX OF FEDERAL SPECIFICATIONS, STANDARDS**  
**AND COMMERCIAL ITEM DESCRIPTIONS (JUN 1988)**

The specifications cited in this solicitation may be obtained from:

- (a) KSC specifications and standards may be obtained at:

<https://standards.nasa.gov/documents/ksc>

- (b) NASA specifications are available at <https://standards.nasa.gov/>. This website requires Public Access registration (Logon Required).

**NASA/KSC SOLICITATION NNK15530485R**  
**SECTION L – INSTRUCTIONS, CONDITIONS, AND NOTICES TO OFFERORS**  
**OR RESPONDENTS**

- (c) The Acquisition Streamlining and Standardization Information System (ASSIST) is a web based system for military and federal specifications and standards. Managed by the DoD Single Stock Point (DoDSSP), Philadelphia, ASSIST-Online provides public access to standardization documents over the Internet. These documents are available at <http://assist.daps.dla.mil>; or by submitting a request to the-

Department of Defense Single Stock Point (DoDSSP)  
Building 4, Section D  
700 Robbins Avenue  
Philadelphia, PA 19111-5094  
Telephone (215) 697-2179  
Facsimile (215) 697-1462

- (d) Other Government Standards, Specifications, and other Technical Documents incorporated by reference in this solicitation may be obtained from the Contracting Officer or, if applicable, <https://www.fbo.gov>.

The request should identify the solicitation number and the specification requested by date, title, and number, as cited in the solicitation.

- (e) Voluntary standards, such as industrial, manufacturing, independent laboratory, society, and institutional associations (non-Government organizations) codes, standards, specifications, and technical documents incorporated by reference in this solicitation must be obtained, at the bidder's expense, from the organization that develops, establishes and/or publishes those documents.

(End of provision)

**FAR 52.216-1                      TYPE OF CONTRACT (APR 1984)**

The Government contemplates award of a Firm Fixed Price contract resulting from this solicitation.

(End of provision)

**FAR 52.222-5                      DAVIS BACON ACT-SECONDARY SITE OF THE WORK (JUL 2005)**

- (a)            (1) The offeror shall notify the Government if the offeror intends to perform work at any secondary site of the work, as defined in paragraph (a)(1)(ii) of the FAR clause at 52.222-6, Davis-Bacon Act, of this solicitation.

**NASA/KSC SOLICITATION NNK15530485R**  
**SECTION L – INSTRUCTIONS, CONDITIONS, AND NOTICES TO OFFERORS**  
**OR RESPONDENTS**

- (2) If the offeror is unsure if a planned work site satisfies the criteria for a secondary site of the work, the offeror shall request a determination from the Contracting Officer.
- (b) (1) If the wage determination provided by the Government for work at the primary site of the work is not applicable to the secondary site of the work, the offeror shall request a wage determination from the Contracting Officer.
- (2) The due date for receipt of offers will not be extended as a result of an offeror's request for a wage determination for a secondary site of the work.

(End of provision)

**FAR 52.225-12      NOTICE OF BUY AMERICAN ACT REQUIREMENT –**  
**CONSTRUCTION MATERIALS UNDER TRADE**  
**AGREEMENTS (FEB 2009)**

- (a) *Definitions.* “Commercially available off-the-shelf (COTS) item,” “construction material,” “designated country construction material,” “domestic construction material,” and “foreign construction material,” as used in this provision, are defined in the clause of this solicitation entitled “Buy American Act—Construction Materials Under Trade Agreements” (Federal Acquisition Regulation (FAR) clause [52.225-11](#)).
- (b) *Requests for determination of inapplicability.* An offeror requesting a determination regarding the inapplicability of the Buy American Act should submit the request to the Contracting Officer in time to allow a determination before submission of offers. The offeror shall include the information and applicable supporting data required by paragraphs (c) and (d) of FAR clause [52.225-11](#) in the request. If an offeror has not requested a determination regarding the inapplicability of the Buy American Act before submitting its offer, or has not received a response to a previous request, the offeror shall include the information and supporting data in the offer.
- (c) *Evaluation of offers.*
  - (1) The Government will evaluate an offer requesting exception to the requirements of the Buy American Act, based on claimed unreasonable cost of domestic construction materials, by adding to the offered price the appropriate percentage of the cost of such foreign construction material, as specified in paragraph (b)(4)(i) of FAR clause [52.225-11](#).

**NASA/KSC SOLICITATION NNK15530485R**  
**SECTION L – INSTRUCTIONS, CONDITIONS, AND NOTICES TO OFFERORS**  
**OR RESPONDENTS**

- (2) If evaluation results in a tie between an offeror that requested the substitution of foreign construction material based on unreasonable cost and an offeror that did not request an exception, the Contracting Officer will award to the offeror that did not request an exception based on unreasonable cost.

(d) Alternate offers.

- (1) When an offer includes foreign construction material, other than designated country construction material, that is not listed by the Government in this solicitation in paragraph (b)(3) of FAR clause [52.225-11](#), the offeror also may submit an alternate offer based on use of equivalent domestic or designated country construction material.
- (2) If an alternate offer is submitted, the offeror shall submit a separate [Standard Form 1442](#) for the alternate offer, and a separate price comparison table prepared in accordance with paragraphs (c) and (d) of FAR clause [52.225-11](#) for the offer that is based on the use of any foreign construction material for which the Government has not yet determined an exception applies.
- (3) If the Government determines that a particular exception requested in accordance with paragraph (c) of FAR clause [52.225-11](#) does not apply, the Government will evaluate only those offers based on use of the equivalent domestic or designated country construction material, and the offeror shall be required to furnish such domestic or designated country construction material. An offer based on use of the foreign construction material for which an exception was requested—
- (i) Will be rejected as nonresponsive if this acquisition is conducted by sealed bidding; or
- (ii) May be accepted if revised during negotiations.

(End of provision)

**NASA/KSC SOLICITATION NNK15530485R**  
**SECTION L – INSTRUCTIONS, CONDITIONS, AND NOTICES TO OFFERORS**  
**OR RESPONDENTS**

**FAR 52.233-2            SERVICE OF PROTEST (SEP 2006)**

- (a) Protests, as defined in section 33.101 of the Federal Acquisition Regulation, that are filed directly with an agency, and copies of any protests that are filed with the Government Accountability Office (GAO), shall be served on the Contracting Officer (addressed as follows) by obtaining written and dated acknowledgment of receipt from:

Contracting Officer  
OP-ES, Room 2488  
Headquarters Building,  
Kennedy Space Center, Florida 32899

- (b) The copy of any protest shall be received in the office designated above within one day of filing a protest with the GAO.

(End of provision)

**FAR 52.236-27            SITE VISIT (CONSTRUCTION) (FEB 1995) - ALTERNATE I**  
**(FEB 1995)**

- (a) The clauses at 52.236-2, Differing Site Conditions, and 52.236-3, Site Investigations and Conditions Affecting the Work, will be included in any contract awarded as a result of this solicitation. Accordingly, offerors or quoters are urged and expected to inspect the site where the work will be performed.
- (b) An organized site visit has been scheduled for: **October 30, 2014 at 0900**
- (c) Participants will meet at:

**KSC Badging Office (take S.R. 405 east from U.S. Highway 1, past the KSC Visitor Complex, located on the right side of the road before KSC Gate 3).  
A bus will be provided to take individuals around to all the sites.**

- (d) Attendance is limited to three representatives from each prospective prime offeror. To attend the site visit, each representative must fill out and submit (in advance of the site visit) the following badge request form:

**KSC Form 28-889V2, KSC Visitor Badge Request (See attached J-O)**

Note: Visitor shall select “White-Unescorted”

Note: **Site visit will be going to a TAA area. Even if you have a current KSC badge you still must provide your name via email to individual below so that we can add your name to the access list.**

**NASA/KSC SOLICITATION NNK15530485R**  
**SECTION L – INSTRUCTIONS, CONDITIONS, AND NOTICES TO OFFERORS**  
**OR RESPONDENTS**

- (e) Submit the badge request form(s), via e-mail, to: **Jessica.L.Smith@NASA.GOV**
- (f) Badge Request Form Due Date: **October 28, 2014 by 3 P.M.**
- (g) Badge requests received after the due date will not be considered (Be advised that badge requests may be rejected for failure to fill in all the required information: names, titles, SSNs, citizenship, etc). **BADGES WILL BE PROVIDED TO U.S. CITIZENS ONLY. RESIDENT ALIENS AND FOREIGN NATIONALS WILL NOT BE BADGED FOR ACCESS TO KSC.**
- (h) Site visit participants will be responsible for:
  - Providing their own transportation
  - Bringing two (2) forms of identification with them. **See Section L,**

**Appendix 4**

- Picking up badges BEFORE THE SITE VISIT at the KSC Badging Office (take S.R. 405 east from U.S. 1, past the KSC Visitor Complex, located on the right before KSC Gate 3). KSC Badging Office hours are Monday through Friday, 6:00A.M. to 4:00P.M. It is recommended you arrive at least 90 minutes prior to the site visit to obtain badges.
  - Reporting to the site visit
  - Providing a **hard hat, closed toed safety shoes, safety glasses and long pants.**
- (i) Visitors on KSC are allowed to possess and use photographic equipment and materials EXCEPT IN CONTROLLED AREAS. At the site visit meeting you will be notified as to the current status of the area.
  - (j) The site visit is expected to last **3 hours.**

(End of provision)

**L.4 LISTING OF NASA FAR SUPPLEMENT (48 CFR CHAPTER 18) PROVISIONS INCORPORATED BY REFERENCE**

PROVISION NO.	TITLE
NFS 1852.228-73	BID BOND (OCT 1998)

**NASA/KSC SOLICITATION NNK15530485R**  
**SECTION L – INSTRUCTIONS, CONDITIONS, AND NOTICES TO OFFERORS**  
**OR RESPONDENTS**

**NFS 1852.233-70**

**PROTESTS TO NASA (OCT 2002)**

**NFS 1852.245-80**

**GOVERNMENT PROPERTY MANAGEMENT**  
**INFORMATION (JAN 2011)**

**NFS 1852.245-81**

**LIST OF AVAILABLE GOVERNMENT**  
**PROPERTY (JAN 2011)**

Fill-in: Paragraph (a): See Attachment J-B, Article J-B-23, Government Property to be Installed by the Contractor

**L.5 LISTING OF NASA FAR SUPPLEMENT (48 CFR CHAPTER 18) PROVISIONS INCORPORATED IN FULL TEXT**

**NFS 1852.215-81 PROPOSAL PAGE LIMITATIONS (FEB 1998)**

- (a) The following page limitations are established for each portion of the proposal submitted in response to this solicitation.

Proposal Section	Page Limit
Technical Experience Summary	Limited to two (2) pages per each project identified in the Technical Experience Summary
Past Performance Data From Prior Customers (Optional)	Limited to three (3) pages of information for each project identified in the Technical Experience Summary
Page 1 of Past Performance Questionnaires	Limited to page 1 of each Past Performance Questionnaire mailed to each customer
Safety and Occupational Health Plan	No page limit. (The Plan shall be divided into two sections: Safety Past Performance Information and Safety and Health Plan)
Small Business Subcontracting Plan	No page limit (Applicable to Large Businesses Only)
Small Business Subcontracting Goals Table (See Section L Appendix 3)	No page limit. <b>APPLICABLE TO ALL OFFERORS</b> (Large Businesses may include its Small Business Subcontracting Goals Table in its Small Business Subcontracting Plan)



**NASA/KSC SOLICITATION NNK15530485R**  
**SECTION L – INSTRUCTIONS, CONDITIONS, AND NOTICES TO OFFERORS**  
**OR RESPONDENTS**

Commitment to the Small Business Program Narrative	No page limit <b>APPLICABLE TO ALL OFFERORS</b> (Large Businesses may include its Commitment to the Small Business Program in its Small Business Subcontracting Plan)
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- (b) A page is defined as one side of a sheet, 8 1/2" x 11", with at least one inch margins on all sides, using not smaller than 12 point type. Foldouts count as an equivalent number of 8 1/2" x 11" pages. The metric standard format most closely approximating the described standard 8 1/2" x 11" size may also be used.
- (c) Title pages and tables of contents are excluded from the page counts specified in paragraph (a) of this provision. In addition, the Cost section of your proposal is not page limited. However, this section is to be strictly limited to cost and price information. Information that can be construed as belonging in one of the other sections of the proposal will be so construed and counted against that section's page limitation.
- (d) If final revisions are requested, separate page limitations will be specified in the Government's request for that submission.
- (e) Pages submitted in excess of the limitations specified in this provision will not be evaluated by the Government and will be returned to the offeror.

**NFS 1852.223-73      SAFETY AND HEALTH PLAN (NOV 2004) (Modified)**

The offeror shall submit a detailed safety and occupational health plan as part of its proposal. Failure to submit an acceptable plan shall make the offeror ineligible for the award of a contract. The plan shall describe in detail the policies, procedures, and techniques that will be used to ensure the safety and occupational health of contractor employees and to ensure safe working conditions throughout the performance of the contract.

The plan shall describe in detail the policies, procedures, and techniques that will be used to ensure the safety and occupational health of the public, astronauts and pilots, the NASA workforce (including contractor employees working on NASA contracts). The plan shall also address the protection of the environment, high-valued equipment, and property.

The Safety and Occupational Health Plan shall be divided into two sections: Safety Past Performance and Safety and Health Plan.

a. Safety Past Performance Information

- 1. Contractor's Corporate Safety Program objectives to include safety policy statement.
- 2. A copy of the Contractor's Annual Summary of Occupational Injuries and Illnesses (OSHA Form 300A) or equivalent for the previous three (3) years as described in Title 29, Code of

**NASA/KSC SOLICITATION NNK15530485R**  
**SECTION L – INSTRUCTIONS, CONDITIONS, AND NOTICES TO OFFERORS**  
**OR RESPONDENTS**

Federal Regulations, Subpart 1904.5. If the contractor is exempt by regulation from maintaining and publishing such logs, equivalent data in contractor's format is acceptable (such as loss runs from insurance carrier) which contains the data required. Data shall be compiled and reported by calendar year.

3. Documented evidence of Experience Modification Rate (EMR) for the previous three (3) years.
4. Days Away, Restricted or Transferred Rate (DART) for the previous three (3) years. The data shall include incidence rates of days away from work, job transfer, or restriction cases, occupational injuries and illnesses, by quartile distribution and employment size group, private industry as most recently published by the Bureau of Labor Statistics.
5. Total Case Incident Rate (TCIR) for the previous three (3) years. The data shall include incidence rates of total recordable cases of occupational injuries and illnesses, by quartile distribution and employment size group, private industry as most recently published by the Bureau of Labor Statistics.
6. Results of any investigations of violations or pending Occupational Safety and Health Administration (OSHA) violations from the past three years.

b. Safety and Health Plan

1. A discussion on how the Contractor intends to comply with 29 CFR 1926 Safety & Health Regulations for Construction, NPR 8715.3 (NASA Safety Manual & Appendices), KNPR 8715.3 (KSC Safety Practices Procedural Requirements), and KNPR 8715.7 (KSC Construction Contractor Safety & Health Practices Procedural Requirements Rev A) with regard to all safety issues that will be encountered on this project. [KNPR 8715.3, KNPR 8715.7, and KSC-UG-2814, Rev A-1 (KSC Construction Contractors Safety and Health Practices Users Guide) can be accessed at <http://tdglobal.ksc.nasa.gov/ReferencedDocuments/>.]

NOTE: KSC-UG-2814 contains a Safety and Occupational Health Plan template (Pages 56-100) that should be used for the Safety and Occupational Health Plan.

2. Hazard Analysis: The contractor shall describe the process to be used to analyze worksite hazards or Job Hazard Analysis (JHA) prior to the start of work to ensure that all hazards are abated. These analyses may address facilities, systems/subsystems, operations, processes, materials (including waste), and specific tasks or jobs.
3. Emergency Procedures: Procedures for emergency actions to be taken to secure dangerous conditions, to protect personnel, and secure work areas in the event of accident or an act of nature.
4. The plan shall describe the contractor's training program including identification of

**NASA/KSC SOLICITATION NNK15530485R**  
**SECTION L – INSTRUCTIONS, CONDITIONS, AND NOTICES TO OFFERORS**  
**OR RESPONDENTS**

responsibility for training employees to assure understanding of safe work practices, hazard recognition, and appropriate responses including protective and/or emergency countermeasures. The Plan shall include a discussion on how the contractor will validate that training requirements have been conducted and satisfied (i.e., physical examination, testing, on-the-job performance, etc). The Plan shall state all training materials and training records will be provided for NASA review on request.

5. The plan shall similarly address subcontractor employee safety and occupational health for those subcontractors who will be performing work under the contract when one or more of the following conditions apply: (Note: Contractors may not delegate overall site safety responsibility or authority for any personnel working under the provisions of this section to any subcontractor.)

(i) The work will be conducted completely or partly on premises owned or controlled by the government.

(ii) The work includes construction, alteration, or repair of facilities in excess of the simplified acquisition threshold.

(iii) The work, regardless of place of performance, involves hazards that could endanger the public, astronauts and pilots, the NASA workforce (including Contractor employees working on NASA contracts), or high value equipment or property, and the hazards are not adequately addressed by Occupational Safety and Health Administration (OSHA) or Department of Transportation (DOT) regulations (if applicable).

(iv) When the assessed risk and consequences of a failure to properly manage and control the hazards warrants use of the clause.

This plan, as approved by the Contracting Officer, will be incorporated into the contract.  
(End of provision)

**NFS 1852.236-74      MAGNITUDE OF REQUIREMENT (DEC 1988)**

The Government estimated price range of this project is **above \$10,000,000.00**.

**L.6                      KSC 52.214-90                      DELIVERY INSTRUCTIONS FOR BIDS/PROPOSALS**  
**(AUG 2005)**

**a. Delivery Address:**

All offers (bids or proposals) shall be delivered to the Central Industry Assistance Office (CIAO), 7110 N. Courtenay Parkway, Merritt Island, FL, 32953 on or before the date and time set for receipt of proposals or bids. The CIAO is located on state

**NASA/KSC SOLICITATION NNK15530485R**  
**SECTION L – INSTRUCTIONS, CONDITIONS, AND NOTICES TO OFFERORS**  
**OR RESPONDENTS**

Road 3, approximately 2 miles south of Gate 2 to KSC. Access to KSC is not required.

**b. Hand-Delivered Offers:**

Offerors are responsible for assuring that hand-carried bids are either received by NASA Government employees at the CIAO or dropped in the CIAO mail box located outside of the building.

**c. Late Delivery of Offers/Bids:**

Late offers/bids will be processed in accordance with FAR 214-7, "Late Submissions, Modifications and Withdrawals of Bids," FAR 52.215-1, "Instructions to Offerors - Competitive Acquisition," FAR 52.212-1, "Instructions to Offerors – Commercial Items," or FAR 52.214-23, "Late Submission, Modifications, and Withdrawals of Technical Proposals Under Two-Step Sealed Bidding," included in this solicitation.

(End of Provision)

**L. 7 PROPOSAL IDENTIFICATION (MAY 2014)**

Sealed packages containing proposals shall be marked to show the offeror's name and address and be addressed as follows:

Attn: **RANDALL A. GUMKE**  
**NASA CONTRACTING OFFICER, OP-ES**  
**SOLICITATION: NNK15530485R**  
**TITLE OF PROJECT: SAFETY & RELIABILITY UPGRADE**

**UNSEALED PROPOSAL PACKAGES DELIVERED TO THE CIAO WILL NOT BE ACCEPTED.**

**L. 8 COMMUNICATIONS REGARDING THIS SOLICITATION (MAY 2014)**

- (a) Questions or comments regarding this solicitation must be submitted via email, cite the solicitation number, and be directed to the following Government representative:

Name: **Randall A. Gumke**  
Email: **Randall.A.Gumke@NASA.gov**  
Address: **NASA John F. Kennedy Space Center,**  
**Mail Stop: OP-ES**  
**Kennedy Space Center, Florida 32899**

**NASA/KSC SOLICITATION NNK15530485R**  
**SECTION L – INSTRUCTIONS, CONDITIONS, AND NOTICES TO OFFERORS**  
**OR RESPONDENTS**

(b) Questions should be submitted on the attached Question/Comment Form, in MS Word or equivalent (no PDF or read only) format or in the body of the e-mail message (in the same format as listed on the Question/Comment Form, Appendix 1 to Section L of this solicitation). Questions shall be sent to the Contracting Officer identified above by **November 10, 2014** to allow for analysis and dissemination of responses in advance of the proposal due date. Questions received after this date will be considered but may not be answered. **Oral questions will not be accepted.**

(c) Questions or comments shall not be directed to the technical activity personnel.

(End of provision)

**L. 9 GENERAL PROPOSAL PREPARATION INSTRUCTIONS (OCT 2014)**

**The solicitation, drawings, and specifications are available only through the Federal Business Opportunities website, (FedBizOpps) (<http://www.fbo.gov>). No hard copies, CD's or other media will be provided by the Government. It is the responsibility of the potential offerors to download the documents posted on FedBizOpps.**

- (a) The Government intends to make award without holding discussions with offerors. By submitting an offer in response to this solicitation, offerors are agreeing to comply with all terms and conditions contained in the solicitation. Offerors are cautioned to carefully follow the instructions set forth herein.
- (b) This solicitation DOES NOT invite offerors to submit alternate proposals. The Contracting Officer may reject any offer containing exceptions. Therefore, offerors are encouraged to include their best terms and conditions in the initial offer. If, despite the warning given in this paragraph, the offeror elects to include exceptions, they must be specifically and clearly identified on a separate page. In this solicitation, the words “offer” and “proposal” are used interchangeably. (See definition of “offer” at FAR 2.101.)
- (c) A PROPERLY SUBMITTED OFFER SHALL CONSIST OF THE FOLLOWING:
  - (1) One original and two copies of the SF 1442, Solicitation Offer and Award, with Blocks 14 through 20c completed and signed by an authorized representative of the offeror. The person signing the offer must initial each erasure or change appending the offer.
  - (2) Three copies of page 1 of all amendments issued, signed by an authorized representative of the offeror. (This requirement only applies if amendment receipts are not acknowledged on the signed SF 1442 submitted).
  - (3) Completion of Section K representations and certifications on-line at the System for Award Management (SAM) website as required by FAR Provision 52.204-8, Annual

**NASA/KSC SOLICITATION NNK15530485R**  
**SECTION L – INSTRUCTIONS, CONDITIONS, AND NOTICES TO OFFERORS**  
**OR RESPONDENTS**

Representations and Certifications, incorporated in full text in Section K of this solicitation.

- (4) Two (2) copies of offeror's Technical Experience Summary in accordance with Article L.10.
- (5) Two (2) copies of Past Performance Data From Customers in accordance with Article L.10. (Optional requirement)
- (6) Two (2) copies of Page 1 of the Past Performance Questionnaires that the offeror provided to each past performance point of contact in accordance with Article L.10. (The past performance questionnaire is provided as Appendix 2 to Section L. of this solicitation)
- (7) Two (2) copies of offeror's Safety and Occupational Health Plan in accordance with NFS 1852.223-73 and Article L. 10.
- (8) One (1) properly executed bid bond in accordance with NFS 1852.228-73. A copy of Standard Form 24, Bid Bond, may be downloaded at:  
  
<http://www.gsa.gov/Portal/gsa/ep/formslibrary.do?formType=SF>
- (9) Two (2) copies of the offeror's Small Business Subcontracting Plan (Applicable to large businesses only)
- (10) Two (2) copies of the offeror's Small Business Subcontracting Goals Table (See Section L Appendix 3) (Applicable to both large and small businesses)
- (11) Two (2) copies of the offeror's Commitment to the Small Business Program Narrative (See Section L Provision 10, Small Business Utilization (Applicable to both large and small businesses)
- (12) Joint Ventures shall provide a copy of the Joint Venture Agreement and specifically identify who the controlling entity will be for this contract.

Incomplete proposals may be a basis for determination of unacceptability of the proposal and removal of the proposal from consideration.

By submitting an offer in response to this solicitation, the offeror is agreeing to comply with all terms and conditions contained in the solicitation. The terms and conditions of the solicitation, including any amendments, shall take precedence over the offeror's proposal unless the proposal is incorporated into the contract by specific reference.

(End of provision)

**NASA/KSC SOLICITATION NNK15530485R**  
**SECTION L – INSTRUCTIONS, CONDITIONS, AND NOTICES TO OFFERORS**  
**OR RESPONDENTS**

**L. 10 NON-PRICE FACTORS (OCT 2014)**

The government will evaluate the non-price factors of Technical Experience, Past Performance, Safety and Occupational Health Plan, and Small Business Utilization. Each offeror shall provide the following Non-Price Factors documentation as part of its proposal:

**a. TECHNICAL EXPERIENCE**

1. Offerors shall provide a Technical Experience Summary identifying a minimum of three (3) and a maximum of five (5) contracts being performed or successfully completed within seven (7) years of the date of issuance of this solicitation, **October 23, 2014** (including federal, state, local government, and private projects) similar in size, content, and complexity to this Government acquisition.
2. An offeror proposing a contractor teaming arrangement with a major subcontractor(s) shall identify the scope of work that will be performed by the prime contractor and the scope of work that will be performed by the major subcontractor(s). In addition to the three (3) to five (5) contracts performed by the prime contractor, in paragraph 1 above, offerors shall identify in the Technical Experience Summary a minimum of three (3) to a maximum of five (5) contracts being performed or successfully completed by the major subcontractor(s) within the past seven (7) years of the date of issuance of this solicitation **October 23, 2014** (including federal, state, local Government and private jobs) similar in size, content, and complexity to the applicable work under this Government acquisition. (A major subcontractor is defined as a subcontractor performing 30% or more of the scope of work and / or a subcontractor performing Task 4 Design / Build Modifications to Upgrade Emergency Power Plant Control and Protection Systems, Drawing 81K06752 and Statement of Work 81K06753 REV A)
3. The Technical Experience Summary shall be limited to two pages of information for each completed contract and include the following information for each referenced contract or project:

Name of project and contract/order number

Dates of the contract performance period as initially awarded

Dates of the actual completed performance period

Place of contract performance

Name and address of customer or Government Agency

Name, telephone number and e-mail address of Contracting Officer or equivalent

**NASA/KSC SOLICITATION NNK15530485R**  
**SECTION L – INSTRUCTIONS, CONDITIONS, AND NOTICES TO OFFERORS**  
**OR RESPONDENTS**

customer contact

Dollar value of contract/order as initially awarded; break out major subcontract values

Dollar value of contract/order at completion

A brief discussion on why the selected contract demonstrates technical experience needed to meet the technical performance requirements of this project as described in section M.1 of this solicitation.

Discussions on problems encountered (if applicable) during contract performance to include, but not limited to, challenges to successfully completing the project on schedule; safety violations/discrepancies; Department of Labor violations/discrepancies; non-payment of employees, subcontractors, and/or suppliers; and terminations. Offerors shall also discuss the offeror's corrective actions relative to identified problems.

Discussions on contract changes resulting in large dollar value and/or schedule increases.

A discussion on contract requirements concerning subcontracting plan goals for small disadvantaged business concerns, monetary targets for small disadvantaged business participation and notifications submitted under FAR 19.1202-4(b).  
(Applicable only to offerors who are large businesses)

**b. PAST PERFORMANCE**

1. Offerors shall provide the Past Performance Questionnaire (Appendix 2 to Section L of this solicitation) to each past performance Contracting Officer or customer contact equivalent identified in its Technical Experience Summary. Offerors shall request these customers to submit the completed questionnaires via e-mail to the address below prior to **November 14, 2014**. *Past Performance Questionnaires will not be accepted directly from offerors.* Questionnaires shall be returned directly from the offeror's past performance source to the Contract Specialist listed below:

Name: **Randall A. Gumke**  
Email: **Randall.A.Gumke@NASA.gov**  
Address: **NASA John F. Kennedy Space Center,  
Mail Stop: OP-ES  
Kennedy Space Center, Florida 32899**

2. Offerors shall submit, with their proposals, copies of the first page of each past performance questionnaire that the offeror sends to each customer contact identified in its Technical Experience Summary. NOTE: The offeror is required to complete the "THIS



**NASA/KSC SOLICITATION NNK15530485R**  
**SECTION L – INSTRUCTIONS, CONDITIONS, AND NOTICES TO OFFERORS**  
**OR RESPONDENTS**

SECTION TO BE COMPLETED BY THE OFFEROR” area prior to sending the questionnaire to its customer.

3. Offerors may provide statements, letters, reports or evaluations from prior customers indicating the level and quality of past performance on the contracts/projects listed in the Technical Experience Summary. This supplemental information shall not exceed three (3) pages of information for each contract/project reference in your Technical Experience Summary. This is an optional requirement.

**c. SAFETY AND OCCUPATIONAL HEALTH PLAN**

Offerors shall submit two copies of their Safety and Occupational Health Plan with their proposal. The Plan shall consist of two parts: Safety Past Performance Information and Safety and Health Plan. NFS 1852.223-73, Safety and Health Plan (NOV 2004), incorporated in full text in Section L. 5 of this solicitation details what shall be included in the Safety and Occupational Health Plan.

**d. SMALL BUSINESS UTILIZATION**

NASA is committed to providing women-owned small business concerns, economically disadvantaged women-owned small business concerns, small disadvantaged business concerns, veteran-owned small business concerns, service-disabled small business concerns, HUBZone small business concerns, and historically black colleges and universities/minority institutions, maximum practicable opportunities to participate in Agency acquisitions at the prime contract level. The participation of NASA prime contractors in providing subcontracting opportunities to such entities is also an essential part of the Agency’s commitment.

**1. Small Business Subcontracting Plan (Applicable to Large Business Concerns Only)**

This solicitation contains FAR clause 52.219-9 (JUL 2013)(ALT II) (OCT 2001) (DEVIATION), “Small Business Subcontracting Plan with Alternate II” which requires all offerors, **except small businesses**, to submit a Small Business Subcontracting Plan, including the associated subcontracting percentage goals and subcontracting dollars, with their proposal. The requirements in the Plan must flow down to first tier large business subcontracts expected to exceed \$1,500,000. (Although first tier large business subcontractors are encouraged to meet or exceed the stated goals, it is recognized that the subcontracting opportunities available to these subcontractors may differ from those suggested in the solicitation based upon the nature of their respective requirements.)

The acceptable Small Business Subcontracting Plan shall be incorporated in Section J as an attachment to the resulting contract. **(Small businesses are not required to submit Small Business Subcontracting Plans; however, small**

**NASA/KSC SOLICITATION NNK15530485R**  
**SECTION L – INSTRUCTIONS, CONDITIONS, AND NOTICES TO OFFERORS**  
**OR RESPONDENTS**

**businesses are required to indicate the amount of effort proposed to be done by a small business either at the prime level or at the first tier subcontract level as discussed in paragraph 2 below.)**

**2. Small Business Subcontracting Goals (Applicable to both Large and Small Business Concerns)**

All offerors (both large and small businesses) shall complete and submit, with their proposal, Appendix 3, SMALL BUSINESS SUBCONTRACTING GOALS, which provides a breakdown of the offeror's proposed goals, by small business category, expressed in terms of both a percentage of TOTAL CONTRACT VALUE and a percentage of TOTAL PLANNED SUBCONTRACTS. Offerors shall modify the appendix to show the proposed subcontracting goals for the basic contract requirement and each option separately.

The Contracting Officer's assessment of appropriate subcontracting goals for this acquisition, expressed as a percentage of TOTAL CONTRACT VALUE (basic and all options combined), is as follows:

Small Businesses	3.00 %
Women Owned Small Business Concerns (WOSB)	0.71%
Small Disadvantaged Business Concerns (SDB)	0.47 %
Veteran Owned Small Business Concerns (VOSB)	0.87%
Service-Disabled Veteran-Owned Small Business Concerns (SDVOSB)	0.79%
HUBZone Small Business Concerns (HBZ)	0.16 %
Historically Black Colleges and Universities (HBCU)/Minority Institutions(MI)	0.00 %

The numbers above reflect the Contracting Officer's assessment of the appropriate subcontracting goals to be achieved at the completion of contract performance. Offerors must perform an independent assessment of the small business subcontracting opportunities. Offerors are encouraged to propose goals that are equivalent to or greater than those recommended by the Contracting Officer. Offerors shall discuss the rationale for any goal proposed that is less than the Contracting Officer's recommended goal in any category. In addition, the Offeror shall describe the efforts made to establish a goal for that category and what ongoing efforts, if any, the Offeror plans during performance to increase participation in that category. (Applicable to large business concerns only: If it is anticipated that the proposed small business goals will not be met by the submission of the first Individual Subcontracting Report (ISR) for this effort as required by 52.219-9 Small Business Subcontracting Plan, the Offeror should discuss their approach to include a timeline for meeting these goals and the

**NASA/KSC SOLICITATION NNK15530485R**  
**SECTION L – INSTRUCTIONS, CONDITIONS, AND NOTICES TO OFFERORS**  
**OR RESPONDENTS**

rationale for it.)

3. Commitment to the Small Business Program (Applicable to both large and small business concerns)

All Offerors are required to provide, with their proposals, a narrative responding to the Commitment to the Small Business Program.

Offerors shall briefly describe work that will be performed by small businesses. Proposals should also identify any work to be subcontracted that is considered “high technology.” “High technology” is defined as research and development efforts that are within or advance the state-of-the-art in technology discipline and are performed primarily by professional engineers, scientists, and highly skilled and trained technicians or specialists.

If the subcontractor(s) is known, offerors must connect the work to the subcontractor and specify the extent of commitment to use the subcontractor (s) (i.e., firm or tentative commitment). (Small business offerors shall provide this information to the extent subcontracting opportunities exist in their approach to performing the requirement.)

All offerors shall provide information demonstrating the extent of commitment to utilize small business concerns and to support their development. Information provided should include a brief description of established or planned procedures and organizational structure for Small Business outreach, assistance, participation in the Mentor Protégé program, counseling, market research and Small Business identification, and relevant purchasing procedures. For large businesses, this information should conform to applicable portions of the submitted Small Business Subcontracting Plan. (Small business offerors shall provide this information to the extent subcontracting opportunities exist in their approach to performing the requirement.)

(End of provision)

**L. 11 APPENDICES TO SECTION L**

This Section L is supplemented with the following appendices:

Appendix 1	Question & Comment Form
Appendix 2	Past Performance Questionnaire
Appendix 3	Small Business Subcontracting Goals
Appendix 4	Acceptable Identity Guide

**NASA/KSC SOLICITATION NNK15530485R**

**SECTION L/APPENDIX 1  
QUESTION/COMMENT FORM**

Questions or comments regarding this solicitation must be submitted via email to the Contracting Officer identified below.

Name: **Randall A. Gumke**  
Email: **Randall.A.Gumke@NASA.gov**  
Address: **NASA John F. Kennedy Space Center,  
Mail Stop: OP-ES  
Kennedy Space Center, Florida 32899**

Questions shall be submitted on this form in MS Word or equivalent (no PDF or read only formats). Questions also may be submitted in the body of an e-mail message following this form's format. Late questions or comments will be considered by the Government but may not be answered. Responses to questions will be issued as amendments to the solicitation. The cutoff date and time for receipt of questions is **November 10, 2014**.

Offerors are cautioned that technical activity personnel are not authorized to answer solicitation questions or comments and that any responses from them may not accurately represent the Government's official position.

PLEASE CITE THE REFERENCE NUMBER SUCH AS PAGE NUMBER OF THE RFP, SPEC, DWGS, ETC, IF APPLICABLE.

1. REFERENCE:

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QUESTION:

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2. REFERENCE:

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QUESTION:

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Submitted by (name): \_\_\_\_\_

Company: \_\_\_\_\_

E-mail Address: \_\_\_\_\_

**NASA/KSC SOLICITATION NNK15530485R  
SECTION L/APPENDIX 2  
PAST PERFORMANCE QUESTIONNAIRE**

**Safety and Reliability Upgrade KSC Institutional Power Systems, Phase 1 of 4.**

NASA Kennedy Space Center's solicitation requires offerors to provide this Past Performance Questionnaire to customers to complete and return to NASA. Past performance raters are requested to submit the completed questionnaires to the contracting officer identified below via e-mail, to arrive not later than the proposal submission date.

**Completed questionnaires should be sent to:**

Name: **Randall A. Gumke**  
Email: **Randall.A.Gumke@NASA.gov**  
Address: **NASA John F. Kennedy Space Center,  
Mail Stop: OP-ES  
Kennedy Space Center, Florida 32899**

Raters are requested to complete the questionnaire forms as written since altered or substituted questionnaires may not adequately address the information NASA will be evaluating.

**SECTION I. THIS SECTION TO BE COMPLETED BY THE OFFEROR**

Name of Contractor Being Evaluated: \_\_\_\_\_

Name of Project and Contract/Order Number: \_\_\_\_\_

Period of Contract Performance (dates): \_\_\_\_\_

Place of Contract Performance: \_\_\_\_\_

Contract Value at Award: \_\_\_\_\_

Contract Value at Completion or Current Contract Amount: \_\_\_\_\_

Contract Status (Prime or Subcontract?): \_\_\_\_\_

Point of Contact: (Rater) Name/Address/Office Phone Number/E-Mail Address:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**NASA/KSC SOLICITATION NNK15530485R  
SECTION L/APPENDIX 2  
PAST PERFORMANCE QUESTIONNAIRE**

**THIS SECTION TO BE COMPLETED BY THE RATER**

(THIS QUESTIONNAIRE, WHEN COMPLETED, SHALL NOT BE DISCLOSED TO  
ANYONE OUTSIDE THE GOVERNMENT)

Name of Contractor Being Evaluated: \_\_\_\_\_

Name of Project and Contract/Order Number: \_\_\_\_\_

Period of Contract Performance (dates): \_\_\_\_\_

Place of Contract Performance: \_\_\_\_\_

Contract Value at Award: \_\_\_\_\_

Contract Value at Completion or Current Contract Amount: \_\_\_\_\_

Contractor's Status (Prime or Subcontractor?): \_\_\_\_\_

Percentage and Dollar Value of Work Performed by the Contractor:  
\_\_\_\_\_

Dates of Rater's Involvement in Program/Contract: \_\_\_\_\_

Brief Description of Work Performed:  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Point of Contact: (Rater) Name/Address/Office Phone Number/E-Mail Address:  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**NASA/KSC SOLICITATION NNK15530485R**  
**SECTION L/APPENDIX 2**  
**PAST PERFORMANCE QUESTIONNAIRE**

**RATING DEFINITIONS:**

On a scale of 1 to 5, with 1 being unsatisfactory and 5 being exceptional, please rate the contractor on the past performance areas included in this questionnaire. A rating of N/A should be used if the question is not applicable or the answer is unknown. Space is provided for any additional comments raters may want to provide. The definitions associated with the 1 to 5 ratings are provided below:

1. **UNSATISFACTORY:** Performance does (did) not meet most contractual requirements and recovery is not likely (did not occur). The contractual performance contains (contained) serious problem(s) for which the contractor's corrective actions appear ineffective (were ineffective).
2. **MARGINAL:** Performance does (did) not meet some contractual requirements. The contractual performance reflects (reflected) serious problem(s) for which the contractor has not yet identified acceptable corrective actions (did not provide acceptable corrective actions).
3. **SATISFACTORY:** Performance meets (met) contractual requirements. The contractual performance reflects (reflected) some minor problems. Corrective actions being taken by the contractor appear to be effective (Corrective actions taken were effective).
4. **VERY GOOD:** Performance meets (met) contractual requirements and exceeds (exceeded) some of the Government's expectations. The contractual performance reflects (reflected) some minor problems and corrective actions being taken by the contractor appear to be effective (Corrective actions taken were effective).
5. **EXCEPTIONAL:** Performance meets (met) contractual requirements and exceeds (exceeded) many of the Government's expectations. The contractual performance reflects (reflected) few minor problems and corrective actions taken by the contractor appear to be highly effective (corrective actions taken were effective).

**N/A:** Not applicable or rater has not observed performance in this area.

**NASA/KSC SOLICITATION NNK15530485R**  
**SECTION L/APPENDIX 2**  
**PAST PERFORMANCE QUESTIONNAIRE**

**CONTRACTOR'S TECHNICAL PERFORMANCE QUESTIONS**

1. The effectiveness of the Contractor's overall project management ability (including but not limited to project managers, quality control managers, trade integrators, safety managers, and superintendents); labor (skilled and unskilled workers); equipment; supplies; tools; and financial resources to successfully perform, provide contract deliverables and complete work in a safe and timely manner.

1	2	3	4	5	NA
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Comments:

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2. The Contractor's ability to provide immediate and effective contractor management attention at the job site and partner with the owner to resolve technical problems and schedule problems. Contractor's ability to provide and adhere to a detailed 2, 3, or 4 week look ahead schedule throughout project.

1	2	3	4	5	NA
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Comments:

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3. The Contractor's ability to provide quality and detailed engineering design services, engineering shop drawings, and accurate and complete as-built documentation for electrical power systems and substations including point-to-point type wiring interconnection diagrams, arrangement diagrams, and software documentation.

1	2	3	4	5	NA
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Comments:

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4. The Contractor's ability to provide project completion within ten percent (10%) of original contract cost and schedule. Please provide comments on any changes greater than 10% that were not customer driven.

1	2	3	4	5	NA
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**NASA/KSC SOLICITATION NNK15530485R**  
**SECTION L/APPENDIX 2**  
**PAST PERFORMANCE QUESTIONNAIRE**

Comments:

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5. The Contractor's ability to provide fully marked-up product data cut sheets; highlighting the particular model # / part #s, sizes, options and other applicable data for the products to be provided and installed.

1	2	3	4	5	NA
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Comments:

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6. The Contractor's ability to provide coordination, communication, and teaming between owner and other on-site personnel in shared work locations.

1	2	3	4	5	NA
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Comments:

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7. The Contractor's ability to perform electrical, structural, and civil demolition and installation work associated with electrical distribution systems including outdoor power substation structural steel mounted air-insulated bus, underground distribution and large power equipment installation to 15 kV class.

1	2	3	4	5	NA
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Comments:

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8. The Contractor's ability to properly, design, install, and test customized automated control systems for generator-utility source switchgear systems including source paralleling systems.

1	2	3	4	5	NA
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**NASA/KSC SOLICITATION NNK15530485R**  
**SECTION L/APPENDIX 2**  
**PAST PERFORMANCE QUESTIONNAIRE**

Comments:

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9. The Contractor's ability to adequately plan all work, and to minimize system outages during electrical system demolition and installation work in operational facilities.

1	2	3	4	5	NA
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Comments:

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10. The Contractor's ability to successfully validate, test, and energize customized and complex electrical equipment including the use of independent (NETA) testing firms.

1	2	3	4	5	NA
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Comments:

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11. The Contractor's ability to perform power system analysis, coordination studies, arc-flash studies and protective relay settings for equipment installed.

1	2	3	4	5	NA
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Comments:

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12. The Contractor's ability to perform job hazard and safety analysis and perform electrical work safely using appropriate personal protective equipment.

1	2	3	4	5	NA
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Comments:

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**NASA/KSC SOLICITATION NNK15530485R**  
**SECTION L/APPENDIX 2**  
**PAST PERFORMANCE QUESTIONNAIRE**

**CONTRACTOR'S SAFETY PERFORMANCE QUESTIONS**

13. The Contractor's ability to maintain a safety and health program with visible management control and involvement.

1	2	3	4	5	NA
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Comments:

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14. The Contractor's ability to maintain a safety program ensuring subcontractors' safety performance was consistent with the prime contractor's safety program.

1	2	3	4	5	NA
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Comments:

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15. The Contractor's ability to analyze worksite hazards prior to the start of work to ensure that all hazards were abated.

1	2	3	4	5	NA
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Comments:

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16. The Contractor's ability to understand and comply with safety requirements.

1	2	3	4	5	NA
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Comments:

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**NASA/KSC SOLICITATION NNK15530485R**  
**SECTION L/APPENDIX 2**  
**PAST PERFORMANCE QUESTIONNAIRE**

17. The Contractor's ability to maintain a safety program that ensured the customer's critical resources were adequately protected with emergency procedures for securing dangerous conditions and protecting personnel during contract performance.

1	2	3	4	5	NA
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Comments:

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18. The Contractor's ability to resolve safety discrepancies in a timely and effective manner and the ability to report, investigate, and take corrective actions on safety accidents/incidents in a timely and effective manner

1	2	3	4	5	NA
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Comments:

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**CONTRACTOR'S CONTRACT ADMINISTRATION PERFORMANCE QUESTIONS**

19. The contractor's ability to provide prompt payment of employees, subcontractors, and suppliers for services and supplies performed/delivered under the contract.

1	2	3	4	5	NA
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Comments:

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20. The contractor's compliance with Davis-Bacon Act and other labor requirements and resolution of reported violations/discrepancies.

1	2	3	4	5	NA
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Comments:

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**NASA/KSC SOLICITATION NNK15530485R**  
**SECTION L/APPENDIX 2**  
**PAST PERFORMANCE QUESTIONNAIRE**

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21. The contractor's compliance with contract subcontracting plan goals for small disadvantaged business (SDB) concerns, monetary targets for SDB participation, and notifications submitted under FAR 19.1202-4(b) . (Applicable only to Large Businesses.)

1	2	3	4	5	NA
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Comments:

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22. Has the contractor's performance required the issuance of any cure notices, show cause letters, or terminations for cause/default? (Please circle Yes or No)

Yes	No				
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Comments:

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**CONTRACTOR'S OVERALL CONTRACT PERFORMANCE**

23. Would you select this contractor again? (Please circle Yes or No)

Yes	No				
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Comments:

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**THIS COMPLETED QUESTIONNAIRE WILL NOT BE DISCLOSED TO ANYONE  
OUTSIDE THE GOVERNMENT. THANK YOU FOR TAKING THE TIME TO  
COMPLETE THIS QUESTIONNAIRE.**

**NASA/KSC SOLICITATION NNK15530485R**  
**SECTION L/APPENDIX 3**  
**SMALL BUSINESS SUBCONTRACTING GOALS**

**This appendix shall be completed by all offerors, large and small, and submitted as part of the proposal. (Large Businesses may include this Appendix in their Small Business Subcontracting Plans.)**

	<i>Column A</i>	<i>Column B</i>	<i>Column C</i>
<b>Business Category</b>	<b>Goal as Percent of Contract Value</b>	<b>Dollar Value to be subcontracted per Category</b>	<b>Goal as Percent of Subcontracting Value</b>
Small Business Concerns			
Large Business Concerns			
Total Dollars to be Subcontracted			
<b>Subcategories of Small Business Concerns</b> (Note: <i>The small business subcategories may not necessarily add up to the percentage and dollar amount in the “Small Business Concerns” category since some small businesses do not fall into any of the subcategories, while others will fall into more than one subcategory.</i> )			
Women Owned Small Business Concerns			
Small Disadvantaged Business Concerns			
Veteran Owned Small Business Concerns			
Service-Disabled Veteran-Owned Small Business Concerns			
HUBZone Small Business Concerns			
Historically Black Colleges and Universities/Minority Institutions			

Notes to Offerors:

It is recommended that Offerors first complete Column B by entering the dollar amount the Offeror proposes to subcontract to each business category and subcategory.

To complete Column A, divide the dollar amount in Column B by the **total offered price of the proposal** (that is, total contract value).

To complete column C, divide the corresponding amount in Column B by the amount in the “Total Dollars to be Subcontracted” cell in Column B. [Note: The “Total Dollars to be Subcontracted” amount in Column C will always be that category divided by itself (100 percent if any dollars are subcontracted).]

**NASA/KSC SOLICITATION NNK15530485R**  
**SECTION L/APPENDIX 3**  
**SMALL BUSINESS SUBCONTRACTING GOALS**

**EXAMPLE OF A PROPERLY COMPLETED SMALL BUSINESS SUBCONTRACTING  
GOALS APPENDIX**

Example of Subcontracting Goals, expressed in both contract value and subcontract value, for a contract proposed at \$100M with estimated subcontracts of \$50M:

	<i>Column A</i>	<i>Column B</i>	<i>Column C</i>
<b>Business Category</b>	<b>Goal as Percent of Contract Value</b>	<b>Dollar Value to be subcontracted per Category</b>	<b>Goal as Percent of Subcontracting Value</b>
Small Business Concerns	25 percent	\$25,000,000	50 percent
Large Business Concerns	n/a	\$25,000,000	50 percent
Total Dollars to be Subcontracted	n/a	\$50,000,000	100 percent
<i>The following small business subcategories do not necessarily add up to the percentage and dollar amount in the “Small Business Concerns” category above, since some small businesses do not fall into any of the subcategories below, while others will fall into more than one subcategory below.</i>			
<b>Subcategories of Small Business Concerns</b>			
Women Owned Small Business Concerns	9 percent	\$9,000,000	18 percent
Small Disadvantaged Business Concerns	5.5 percent	\$5,500,000	11 percent
Veteran Owned Small Business Concerns	2.5 percent	\$2,500,000	5 percent
Service-Disabled Veteran-Owned Small Business Concerns	1.5 percent	\$1,500,000	3 percent
HUBZone Small Business Concerns	1.5 percent	\$1,500,000	3 percent
Historically Black Colleges and Universities/Minority Institutions	1.5 percent	\$1,500,000	3 percent

To complete Column A, divide the dollar amount in Column B by the **total offered price of the proposal** (that is, total contract value). In the example above, Column A for Veteran Owned Business Concerns = \$2,500,000 divided by \$100,000,000, or 2.5 percent.

To complete column C, divide the corresponding amount in Column B by the amount in the “Total Dollars to be Subcontracted” cell in Column B. In the example above, Column C for Women-Owned Small Businesses = \$9,000,000 divided by \$50,000,000, or 18 percent.

Note: the “Total Dollars to be Subcontracted” amount in Column C will always be that category divided by itself (100percent if any dollars are subcontracted).

NASA/KSC SOLICITATION NNK15530485R  
SECTION L/APPENDIX 4  
ACCEPTABLE IDENTITY GUIDE

The below listing details the Office of Management and Budget's (OMB) approved documentation required to obtain a  
**NASA Federal Credential / Photo Identification Badge**

**Two (2) identity sources are required**

**One must be a valid Federal or State government issued picture identification.** The other identity source must be one of the following documents:

**List of Acceptable Documents to Accompany a  
Federal or State Photo Identification**

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1. U.S. Passport (unexpired)
2. Permanent Resident Card or Alien Registration Receipt card (Form I-551)
3. An Unexpired Foreign Passport with a Temporary I-551 Stamp
4. An Unexpired Employment Authorization Document that contains a Photograph (Form I-766)
5. An Unexpired Foreign Passport with an Unexpired Arrival-Departure Record, (Form I-94 or I-94A), bearing the same name as the passport and containing an endorsement of the alien's nonimmigrant status, if that status authorizes the alien to work for the employer
6. Unexpired Driver's License\*\* or ID Card issued by a state or outlying possession of the United States provided it contains a photograph or information such as name, date of birth, gender, height, eye color and address
7. Unexpired ID card issued by United States federal, state or local government agencies or entities, provided it contains a photograph, or information such as name, date of birth, gender, height, eye color and address
8. U.S. School ID card with a photograph
9. U.S. Voter's Registration Card
10. U.S. Military Dependent's ID Card
11. U.S. Military card or draft record
12. U.S. Coast Guard Merchant Mariner Card
13. Native American Tribal Document
14. Unexpired Driver's License Issued by a Canadian government authority
15. U.S. Citizen ID Card (Form I-197)
16. ID Card for use of Resident Citizens of the United States (Form I-179)



**NASA/KSC SOLICITATION NNK15530485R**  
**SECTION L/APPENDIX 4**  
**ACCEPTABLE IDENTITY GUIDE**

17. **Unexpired Passport from the Federated States of Micronesia (FSM) or the Republic of the Marshall Islands (RMI) with Form I-94 or I-94A indicating nonimmigrant admission under the Compact of Free Association Between the U.S. and the FSM or RMI**
18. **U.S. Social Security Card issued by the Social Security Administration (*other than a card stating it is not valid for employment*)**
19. **Certification of Birth or Birth Abroad issued by the Department of State (Form FS-545 or Form DS-1350)**
20. **Original or Certified copy of birth certificate issued by a state, county, municipal authority or outlying possessions of the United States bearing an official seal**
21. **Unexpired employment authorization document issued by DHS**

**U.S. CITIZENS UNDER 18 YEARS OF AGE MAY PROVIDE:**

22. **School Record or report card**
23. **Clinic, Doctor, or Hospital Record**
24. **Day-care or Nursery School Record**

\*\* The NASA Office of Protective Services (OPS) is implementing enforcement of the REAL ID Act agency wide effective July 21, 2014. This Act was passed by Congress and implemented for the Federal government by the Department of Homeland Security (DHS). The basic premise for the Real ID Act is to require individual states to enhance the security of their driver's license and identity card issuance processes. **There are still 11 non-compliant states and 1 territory which are: Alaska, American Samoa, Arizona, Kentucky, Louisiana, Maine, Massachusetts, Minnesota, Montana, New York, Oklahoma, and Washington.** As a caveat, Minnesota, New York, and Washington offer an Enhanced Driver's License (EDL), which will be acceptable. EDLs are identifiable by the American Flag on the face of the card.

As a result of this requirement, **effective July 21, 2014 the KSC Badging Office will no longer accept driver's licenses or identity cards from the states listed above.** If you possess a license from one of the above listed states, please ensure that you have an alternate form of identification with a photograph such as a passport, military ID, or federal employee badge. Visitors without acceptable identification will require an escort at all times while on Center.

**NASA/KSC SOLICITATION NNK15530485R**  
**SECTION M – EVALUATION FACTORS FOR AWARD**

**M.1 BASIS FOR CONTRACT AWARD (MAY 2014)**

**a. EVALUATION FACTORS AND SELECTION OF THE SUCCESSFUL OFFEROR**

The Contracting Officer will utilize a Lowest Price Technically Acceptable (LPTA) source selection process to make an award decision. Only one award will be made as a result of this solicitation. Award will be made to the offeror who is deemed responsible in accordance with the Federal Acquisition Regulation (FAR); and whose proposal, judged by an overall assessment of the evaluation criteria and other considerations specified in this solicitation, meets the technically acceptable standard for the non-price factors and provides the lowest evaluated price.

In accordance with the Instructions to Offerors – Competitive Acquisition provision of this solicitation (FAR 52.215-1), the Government intends to evaluate proposals and award a contract without discussions with offerors (except clarifications as described in FAR 15.306(a).) Therefore, the offeror's initial proposal should contain the offeror's best terms. The Government reserves the right to conduct discussions if the Contracting Officer later determines them to be necessary.

**b. EVALUATION OF NON-PRICE FACTORS**

Offerors will be evaluated on the non-price factors of Technical Experience, Past Performance, Safety and Occupational Health Plan and Small Business Utilization.

**(1) FACTOR 1 – TECHNICAL EXPERIENCE**

Offerors must provide evidence that they have the technical experience needed to meet the technical performance requirements of this project. The Government will assess the technical experience of the offeror on projects identified in the offeror's Technical Experience Summary. Offerors must meet all of the following standards to receive an "Acceptable" rating on this factor:

All projects listed in the Technical Experience Summary must be in progress or have been successfully completed within seven (7) years of the date of issuance of this solicitation **October 23, 2014.**

All projects listed in the Technical Experience Summary must have involved Power and Communication Line and Related Structures Construction. Collectively projects shall demonstrate experience in the electrical, structural steel, civil, and environmental disciplines involving all of the following: (1) outdoor power substation structural steel mounted air-insulated bus distribution systems; (2) underground medium voltage cable and duct systems to 15 kV class; (3) large power equipment installation to 15 kV class; (4) 15 kV class medium voltage metal-clad switchgear; (5) work planning to eliminate or minimize outages at operational facilities; (6) demolition of electrical systems including hazardous material abatement and disposal procedures; (7) switchgear and generator protection including the use of Schweitzer Engineering protective relay systems; (8) utility-generator paralleling switchgear controls including the use of programmable logic controllers; (9) providing

**NASA/KSC SOLICITATION NNK15530485R**  
**SECTION M – EVALUATION FACTORS FOR AWARD**

detailed engineering design services, shop drawings and as-built documentation including wiring diagrams, arrangement drawings, software documentation, power system analysis, coordination studies and relay settings; (10) providing arc-flash and job hazard analysis and the use of proper procedures and arc-flash/shock prevention protective equipment when performing electrical work.

Two of the projects listed in the Contractor's Technical Experience Summary must have been individually valued at or over \$3M and one project valued at or over \$1M.

At least one of the Contractor's projects listed in the Technical Experience Summary must have been performed at an active and secure government or electric utility facility

**Failure to meet all of the requirements under this factor will result in an "UNACCEPTABLE" rating and elimination from further consideration for contract award.**

**(2) FACTOR 2 – PAST PERFORMANCE**

The Government will assess the past performance of the offeror on all of the projects identified in the offeror's Technical Experience Summary. (This assessment of past performance information is separate from the contractor responsibility determination required under FAR Subpart 9.1.)

The completed past performance questionnaires submitted by the offerors' Contracting Officers or customer contact equivalents identified in the Technical Experience Summary will be evaluated. The Government shall consider this information, as well as information obtained from other sources (to include interviews with previous customers), when evaluating each offeror's past performance. The currency and relevance of the information, source of the information, context of the data, and general trends in the offerors' past performance shall be considered. The evaluation shall take into account past performance information regarding predecessor companies, key personnel who have relevant experience, and/or subcontractors who will perform major or critical aspects of the requirement when such information is relevant to this acquisition. The Government will not disclose the names of persons/companies who provide performance information. If, during the course of the evaluation, the Government obtains adverse information to which the offeror has not previously had an opportunity to respond, the Government will afford the offeror an opportunity to clarify the adverse information.

**(a) Past Performance Evaluation Areas.** The government will evaluate the offeror's past performance in:

- (i) Providing prompt payment of employees, subcontractors, and suppliers for services and supplies performed/delivered under the contract.
- (ii) Complying with Davis-Bacon Act and other labor requirements and resolution of reported labor violations/discrepancies.
- (iii) Complying with contract subcontracting plan goals for small disadvantaged

**NASA/KSC SOLICITATION NNK15530485R**  
**SECTION M – EVALUATION FACTORS FOR AWARD**

business concerns (see FAR 19.7), monetary targets for SDB participation(see FAR 19.1202), and notifications submitted under FAR 19.1202-4(b)  
**(Applicable only to offerors who are large businesses).**

- (iv) The Contractor's ability to provide immediate and effective contractor management attention at the job site and partner with the owner to resolve technical and schedule issues. Contractor's ability to provide and adhere to a detailed 2, 3, or 4-week look ahead schedule throughout the project.
- (v) Overall project management ability (including but not limited to project managers, quality control managers, trade integrators, safety managers, and superintendents); labor (skilled and unskilled workers); equipment; supplies; tools; and financial resources to successfully perform, provide contract deliverables and complete work in a quality, safe and timely manner.
- (vi) The Contractor's ability to provide quality and detailed engineering design services, engineering shop drawings, and accurate and complete as-built documentation for electrical power systems and substations including point-to-point type wiring interconnection diagrams, arrangement diagrams, and software documentation.
- (vii) Providing fully marked-up product data cut sheets; highlighting the particular model # / part #s, sizes, options and other applicable data for the products to be provided and installed.
- (viii) Providing coordination, communication, and teaming between owner and other on-site personnel in shared work locations.
- (ix) Providing project completion within ten percent (10%) of original contract cost and schedule unless customer required changes caused the cost or schedule deviation.
- (x) The Contractor's ability to perform electrical, structural, and civil demolition and installation work associated with electrical distribution systems including outdoor power substation structural steel mounted air-insulated bus, underground distribution and large power equipment installation to 15 kV class.
- (xi) The Contractor's ability to properly, design, install, and test customized automated control systems for generator-utility source switchgear systems including source paralleling systems.
- (xii) The Contractor's ability to adequately plan all work, and to minimize system outages during electrical system demolition and installation work in operational facilities.

**NASA/KSC SOLICITATION NNK15530485R**  
**SECTION M – EVALUATION FACTORS FOR AWARD**

- (xiii) The Contractor's ability to successfully validate, test, and energize customized and complex electrical equipment including the use of independent (NETA) testing firms.
- (xiv) The Contractor's ability to perform power system analysis, coordination studies, arc-flash studies and protective relay settings for equipment installed.
- (xv) The Contractor's ability to perform job hazard and safety analysis and perform electrical work safely using appropriate personal protective equipment.
- (xvi) Maintaining an acceptable Safety Program:
  - i. Maintaining acceptable Days Away Restricted or Transferred (DART), Total Case Incident Rate (TCIR), OSHA 300 Log and Experience Modification Rating (EMR) rates for the previous three (3) years.
  - ii. Maintaining a safety and health program with visible management control and involvement
  - iii. Maintaining a safety program ensuring subcontractors' safety performances was consistent with the prime contractor's safety program
  - iv. Ability to analyze worksite hazards prior to the start of work to ensure that all hazards were abated
  - v. Maintaining a safety program with emergency procedures for securing dangerous conditions and protecting personnel during contract performance
  - vi. Ability to understand and comply with safety requirements.
  - vii. Maintaining a safety program that ensured the customer's critical resources were adequately protected
  - viii. Ability to resolve safety discrepancies in a timely and effective manner
  - ix. Ability to report, investigate, and take corrective actions on safety accidents/incidents in a timely and effective manner

**(b) Past Performance Confidence Ratings:**

The Offeror's relevant experience and past performance will be reviewed and an assessment made that reflects the Government's judgment of the probability of each offeror successfully accomplishing the proposed effort based on that offeror's demonstrated performance. Past performance shall be evaluated for each offeror using the

**NASA/KSC SOLICITATION NNK15530485R**  
**SECTION M – EVALUATION FACTORS FOR AWARD**

following levels of confidence ratings:

Very High Level of Confidence

The offeror's relevant past performance is of exceptional merit and is very highly pertinent to this acquisition, indicates exemplary performance in a timely, efficient, and economical manner and very minor (if any) problems with no adverse effect on overall performance. Based on the offeror's performance record, there is a very high level of confidence that the offeror will successfully perform the required effort.

High Level of Confidence

The offeror's relevant past performance is highly pertinent to this acquisition; demonstrating very effective performance that would be fully responsive to contract requirements. Offeror's past performance indicates that contract requirements were accomplished in a timely, efficient, and economical manner for the most part, with only minor problems that had little identifiable effect on overall performance. Based on the offeror's performance record, there is a high level of confidence that the offeror will successfully perform the required effort.

Moderate Level of Confidence

The offeror's relevant past performance is pertinent to this acquisition, and it demonstrates effective performance. Performance was fully responsive to contract requirements; there may have been reportable problems, but with little identifiable effect on overall performance. Based on the offeror's performance record, there is a moderate level of confidence that the offeror will successfully perform the required effort.

Low Level of Confidence

The offeror's relevant past performance is at least somewhat pertinent to this acquisition, and it meets or slightly exceeds minimum acceptable standards. Offeror achieved adequate results; there may have been reportable problems with identifiable, but not substantial, effects on overall performance. Based on the offeror's performance record, there is a low level of confidence that the offeror will successfully perform the required effort. Changes to the offeror's existing processes may be necessary in order to achieve contract requirements.

Very Low Level of Confidence

The offeror's relevant past performance does not meet minimum acceptable standards in one or more areas; remedial action was required in one or more areas. Performance problems occurred in one or more areas which, adversely affected overall performance. Based on the offeror's performance record, there is a very low level of confidence that the offeror will successfully perform the required effort.

**NASA/KSC SOLICITATION NNK15530485R**  
**SECTION M – EVALUATION FACTORS FOR AWARD**

Neutral

In the case of an offeror without a record of relevant past performance or for whom information on past performance is not available, the offeror may not be evaluated favorably or unfavorably on past performance [see FAR 15.305(a) (2) (ii) and (iv)].

**To receive an “Acceptable” rating for past performance, the offeror must receive an overall Past Performance Confidence Rating of Very High, High, or Neutral.**

**(3) FACTOR 3 – SAFETY AND OCCUPATIONAL HEALTH PLAN**

The offeror’s Safety and Occupational Health Plan will be reviewed to determine:

- (a) The offeror’s understanding of and ability to comply with 29 CFR 1926 Safety & Health Regulations for Construction, NPR 8715.3 (NASA Safety Manual & Appendices), KNPR 8715.3 (KSC Safety Practices Procedural Requirements), 8715.7 (KSC Construction Contractor Safety & Health Practices Procedural Requirements)
- (b) The offeror’s ability to ensure the safety and occupational health of the project contractor employees (to include subcontractors) and to ensure safe working conditions throughout the performance of the contract.
- (c) The offeror’s ability to ensure the safety and occupational health of the public, astronauts and pilots, the NASA workforce (including Contractor employees working on NASA contracts) and the protection of the environment, high-valued equipment, and property.

**To receive an “Acceptable” rating, the Safety and Occupational Health Plan must represent a reasonable initial effort to address the essential requirements of NFS 1852.223-73, Safety and Health Plan, demonstrates the offeror understands NASA’s safety requirements, and contains no major deficiencies or omissions which, if corrected, would require a major rewrite of the Plan.**

**(4) FACTOR 4 - SMALL BUSINESS UTILIZATION**

The evaluation of Small Business Subcontracting and Commitment to the Small Business Program applies to all Offerors, except that Small Businesses are not required to submit a Small Business Subcontracting Plan.

**(a) Small Business Subcontracting**

- (1) Large Business Concerns: Large businesses are required to submit small business subcontracting plans, to include Section L, Appendix 3, Small Business Subcontracting Plan Goals. The offeror’s Small Business Subcontracting Plan will be evaluated in terms of meeting the requirements of FAR 19.704, Subcontracting Plan Requirements. The Small Business Subcontracting goals will be evaluated in

**NASA/KSC SOLICITATION NNK15530485R**  
**SECTION M – EVALUATION FACTORS FOR AWARD**

terms of the offeror's proposed subcontracting goals (overall subcontracting goals and individual subcontracting goals by small business category) in comparison to the Contracting Officer's assessment of the appropriate subcontracting goals for this procurement. The evaluation of the Small Business Subcontracting Plan will be on the basis of total contract value. (NOTE: A proposal will not be rejected solely because the submitted Subcontracting Plan does not meet the NASA recommended goals. NASA will consider the amount of work being retained for performance by the prime contractor in-house when determining whether a subcontracting plan is acceptable.)

- (2) **Small Business Concerns:** Small businesses are not required to submit subcontracting plans but are required to submit Section L, Appendix 3, Small Business Subcontracting Goals. NASA will only evaluate the amount of work proposed to be performed by the small business prime and any small business at the first tier subcontract level. The proposed amount of work to be done by the prime small business and first tier small business subcontractors will be evaluated against the Contracting Officer's assessment of the overall subcontracting goal for this procurement. Individual subcontracting goals by small business categories will not be evaluated for small business primes and their first tier subcontractors. (NOTE: The submission of Small Business Subcontracting Goals by small businesses is for evaluation purposes only. Proposed subcontracting goals submitted by small businesses will not be incorporated in any resultant contract(s))

**(b) Commitment to Small Businesses**

- (1) NASA will evaluate the extent to which any work performed by a small business subcontractor(s) is identified as "high technology." NASA also will evaluate the extent of commitment to use the subcontractor(s) (enforceable vs. non-enforceable commitments.)
- (2) NASA will evaluate the extent to which the identity of the small business subcontractor is specified in the proposal as well as the extent of the commitment to use small businesses. (For small business offerors, NASA will evaluate this only if subcontracting opportunities exist.)
- (3) NASA will evaluate the Offeror's established or planned procedures and organizational structure for small business outreach, assistance, participation in the Mentor Protégé program, counseling, market research and small business identification, and relevant purchasing procedures. (For large businesses Offerors, this information should conform to its submitted Small Business Subcontracting Plan. For small business Offerors, NASA will evaluate this only if subcontracting opportunities exist.)

Offerors must meet all of the following standards to receive an "Acceptable" rating on this factor:



**NASA/KSC SOLICITATION NNK15530485R**  
**SECTION M – EVALUATION FACTORS FOR AWARD**

- The large businesses' Small Business Subcontracting Plan addresses all of the eleven (11) requirements of FAR Clause 52.219-9, Small Business Subcontracting Plan, paragraphs (d)(1) thru (11). (Applicable to Large Businesses Only)
- The rationale provided for any proposed subcontracting goal that is less than the Contracting Officer's recommended goal includes an independent assessment of the small business opportunities and demonstrates a reasonable attempt was made to meet the Contracting Officer's recommended subcontracting goal.
- The large and small businesses' proposal demonstrates Small Business subcontractor commitments. (NOTE: For Small Business, NASA will evaluate this only if subcontracting opportunities exist.) (Applicable to Large and Small Businesses)

**c. EVALUATION OF PRICE PROPOSALS**

The proposed prices will be evaluated by comparison against the Government estimate and prices submitted by other offerors. Prices that are determined to be more than **40%** above or below the Independent Government Estimate or more than **40%** above or below the mean price proposed by all offerors will be considered to be unreasonably high or unrealistically low and will not be considered for award. As part of this process the Government will establish a proposal price ranking of the percentage differences from both the IGE and mean price of all offers submitted for that particular category from lowest to highest.

**FAR 52.217-4, Evaluation of Options Exercised at Time of Contract Award (JUN 1988)**, applies to this solicitation. The Government will evaluate the total price for the basic requirement together with any option(s) exercised at the time of award.

**d. EVALUATION PROCESS**

The following describes the general methodology that will be used for proposal evaluation:

- (1) Offerors will be checked against the List of Parties Excluded From Federal Procurement and Non-procurement Programs. Offerors who appear on the List will be eliminated without further consideration. Proposals will also be checked for minor informalities or irregularities. The Contracting Officer will follow guidance at FAR 15.306 for resolving minor informalities or irregularities.
- (2) The Contracting Officer will conduct a price analysis on each offeror's submitted price. The ten (10) percent HUBZone price evaluation preference provided in FAR 52.219-4, Notice of Price Evaluation Preference for HUBZone Small Business Concerns, will be applied, if applicable.
- (3) The technical (non-price) volume of the offeror with the lowest evaluated reasonable price will be given to the technical evaluators for review. If the technical (non-price) proposal is determined to

**NASA/KSC SOLICITATION NNK15530485R**  
**SECTION M – EVALUATION FACTORS FOR AWARD**

be technically “Acceptable”, award shall be made to that offeror, subject to a positive responsibility determination in accordance with FAR Part 9. In order for a technical proposal to be determined technically “Acceptable”, all of the non-price factors in the technical proposal must be individually and collectively evaluated as “Acceptable”.

- (4) If the technical proposal is determined to be technically “Unacceptable” the technical (non-price) volume of the offeror with the next lowest evaluated reasonable price will be given to the technical evaluators for review. If the technical (non-price) proposal of the offeror with the next lowest evaluated reasonable price is determined to be technically “Acceptable” award shall be made to that offeror subject to a positive responsibility determination in accordance with FAR Part 9.
- (5) If the technical proposal is determined to be technically “Unacceptable” the process described will be conducted again, as many times as necessary, until such time as the Government identifies a technically “Acceptable” proposal.

**M.2 SOURCE SELECTION DECISION (MAY 2014)**

Selection for contract award will be made based on a Lowest Price Technically Acceptable (LPTA) source selection process. The proposal that provides the lowest fair and reasonable price and is otherwise technically acceptable in all non-price factors will be selected for award. The selection will be made subject to an affirmative determination of contractor responsibility in accordance with FAR Subpart 9.1.

**NASA/KSC SOLICITATION NNK15530485R  
ATTACHMENT J-A - PROJECT DELIVERABLES**

**PROJECT DELIVERABLES**

Incidental deliverables (manuals, reports, plans, and other written documentation) to be provided under this contract are identified in this Attachment J-A. Nothing contained in this Attachment J-A shall relieve the Contractor from furnishing data called for by, or under the authority of, other provisions of this contract which are not identified and described in this Attachment J-A. The costs for data to be furnished in response to Attachment J-A is included in the firm-fixed price of this contract.

**J-A-1            SUBMITTAL SCHEDULES (MAR 2014)**

- (a) Within 15 days of Notice to Proceed, the Contractor shall provide, for approval by the Contracting Officer, the following schedules of submittals:
  - (1) A schedule of all shop drawings and technical submittals required by the specifications and drawings. The schedule will indicate the specification or drawing reference requiring the submittal; the material, item or process for which the submittal is required; the "SD" number and identifying title of the submittal; the Contractor's anticipated submission date and the approval need date.
  - (2) A separate schedule of all other submittals required under the contract but not listed in the specifications or drawings. The schedule will indicate the contract requirement reference; the type or title of the submittal; the Contractor's anticipated submission date and the approval need date (if approval is required).
- (b) All submittals called for by the contract documents will be listed on one of the above schedules. If a submittal is called for but does not pertain to the contract work, the Contractor will include it in the applicable schedule and annotate it "N/A" with a brief explanation. Approval of the schedules by the Contracting Officer does not relieve the Contractor of supplying submittals required by the contract documents but which have been omitted from the schedules or marked "N/A".
- (c) Copies of both schedules will be re-submitted monthly annotated by the Contractor with actual submission and approval dates. When all items on a schedule have been finally approved, no further re-submittal of the schedule is required.
- (d) Common submittals requirements between specifications 79K39769 and 79K39771 may be submitted together if data specific to one of these specifications but not the other is annotated accordingly.

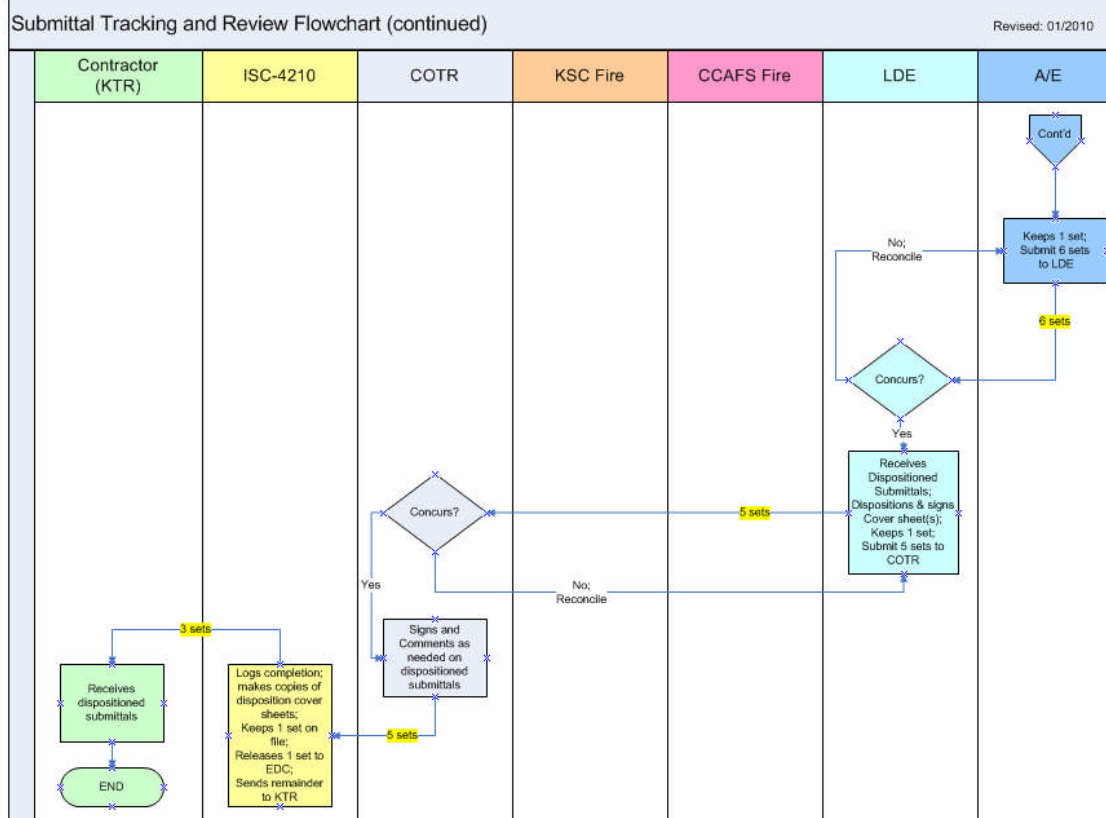
**J-A-2            SHOP DRAWINGS (OCT 2015)**

Pursuant to FAR clause 52.236-21 entitled "Specifications and Drawings for Construction"; the Contractor shall submit Shop Drawings as detailed below. For purposes of this clause, the term "Shop

**NASA/KSC SOLICITATION NNK15530485R**  
**ATTACHMENT J-A - PROJECT DELIVERABLES**

Drawings” shall be construed to include all “Submittal Descriptions” (Type SD-01, SD-02, SD-03, etc., as required by project technical specifications) that are necessary to fully describe contractor supplied materials and installation methods and demonstrate their compliance with the technical and performance requirements of the contract. Submittal Descriptions include drawings, design data, catalog cuts, descriptive literature, illustrations, schedules, performance and test data, and similar materials to be furnished by the contractor. The preparation and distribution requirements described herein apply to all such SD submittals except as noted in technical specifications or otherwise directed by the Contracting Officer.

- (a) For Shop Drawing submittals provide complete sets to KSC functional organizations and to the Architect/Engineer as shown on the “Submittal Tracking and Review Flowchart.” Names, mail codes and addresses will be provided at the Pre-work Conference.
- (b) The Shop Drawing submittals shall be transmitted to the Contracting Officer and the A/E on the same day. Delivery to the A/E and other KSC functional organizations shall be by the equivalent of “next day” delivery service with delivery receipts or other proof of delivery that show traceability to the delivery destination and receipt of the delivery. The timestamp recorded by the Contracting Officer upon receipt from the Contractor shall be the record date. Delivery receipts and other proof of delivery shall be submitted to the Contracting officer or delegated organization as shown on the “Submittal Tracking and Review Flowchart” provided below:



**NASA/KSC SOLICITATION NNK15530485R**  
**ATTACHMENT J-A - PROJECT DELIVERABLES**

- (c) Three (3) sets shop drawings will be returned to the Contractor. These sets will be returned to the Contractor within 21 calendar days of the record date with appropriate review and approval notations as described below.

On or before completion date of the contract, the Contractor shall submit to the Contracting Officer two complete sets of shop drawings, which incorporate all comments, annotations, conditions of approval and corrections. Both drawing sets are to be made from the same original

- (d) The shop drawings shall be complete and detailed and shall contain all information required for checking without reference to material contained in other shop drawing transmittals. Partial submittals will not be accepted unless specifically approved by the Contracting Officer. Any partial submittals shall be so indicated and any outstanding submittal required to complete the package shall be identified.
- (e) Shop drawings shall be submitted in a logical sequence that is duly coordinated with long lead-time procurements and with fabrication and construction schedules. Each set of shop drawings shall be accompanied by a completed KSC shop drawing submittal form listing the specification or drawing reference requiring the shop drawing; the material, item or process for which the shop drawing is required and the "SD" number and identifying title of the shop drawing. The Shop Drawing form will be supplied by the Government.
- (f) Shop drawings for certain systems (e.g. fire detection/suppression) must be submitted as soon as 30 days following contractor's Notice to Proceed, and associated as built drawings, software, programs and test procedures must be submitted up to 30 days prior to acceptance testing. See Shop Drawing and submittal references in project technical specifications for affected submittals and their respective deadlines.
- (g) "Drawings" as opposed to "Shop Drawings" shall mean actual drawings, diagrams, layouts and schematics. "Drawings" fall under the more general term "Shop Drawings" which include other required materials.
- (1) Drawings shall be uniform in size, nominally 24 by 36 inches, with a maximum size of 28 by 40 inches. All drawings shall have dark lines on a white background.
- (2) Drawings shall be numbered in logical sequence. The Contractor may use his own numbering system. Each drawing shall bear the number of the submittal (e.g. First Submittal, Second Submittal, etc.) in a uniform location adjacent to the title block. The NASA contract number shall appear in the margin, immediately below the title block, for each drawing.
- (3) A blank space, no smaller than 4 by 5 inches shall be reserved on the right hand half of each sheet for the Government disposition stamp.
- (h) Review and approval notation will be as follows:

**NASA/KSC SOLICITATION NNK15530485R**  
**ATTACHMENT J-A - PROJECT DELIVERABLES**

- (1) Shop drawings marked "approved" authorize the Contractor to proceed with work covered by such drawings.
  - (2) Shop drawings marked "approved as noted" authorize the Contractor to proceed with the work covered provided he takes no exception to the corrections. The notes shall be incorporated on the shop drawings prior to submission of the final shop drawings.
  - (3) Shop drawings marked "returned for correction" require the Contractor to make the necessary corrections and revisions on the drawings and re-submit them for approval in the same routine as before, prior to proceedings with any of the work depicted on the drawings.
  - (4) Shop drawings marked "not approved" or "disapproved" indicate noncompliance with the contract requirements and the shop drawings shall be re-submitted with appropriate changes. No item of work requiring a shop drawing shall be accomplished until the drawings are approved or approved as noted.
  - (5) The Contractor shall make any corrections required by the Contracting Officer. If the Contractor considers any correction or notation indicated on the returned shop drawings to constitute a change to the contract drawings or specifications; notice as required under the clause entitled "Changes" shall be given to the Contracting Officer.
  - (6) The Government's engineering review of Contractor's shop drawing submittal(s) is for general conformance with the design concept of the project and the information given in the contract documents. As such, approval of the shop drawings by the Contracting Officer shall not be construed as a complete check, but will indicate only that the general method of construction and detailing is satisfactory. The Contractor is solely responsible for the dimensions and design of adequate connection details; confirming and correlating all quantities and dimensions; selecting fabrication processes and techniques of construction; coordinating the work with that of other trades and performing the work in a safe and satisfactory manner, and certifying that proposed products meet all technical specifications and all contractual provisions, especially those relating to the 'Buy American Act'. Corrections or comments made as part of the Government review do not relieve the Contractor from compliance with the requirements of the contract documents. Likewise, any approval of a Shop Drawing Submittal containing an unidentified deviation from the technical requirements of the applicable contract drawings, maps and specifications, shall not relieve the contractor from compliance with the technical requirements.
- (i) If changes are necessary to approved shop drawings whether as a result of a contract change or for any other reasons, the Contractor shall make such revisions and resubmit the shop drawings in accordance with the procedures in paragraphs a. through c. above. No item of work requiring a shop drawings change shall be accomplished until the changed shop drawings are approved.

**NASA/KSC SOLICITATION NNK15530485R**  
**ATTACHMENT J-A - PROJECT DELIVERABLES**

- (j) Progress payments will not be made on materials and equipment that have been delivered to the job site but not approved on shop drawings.
- (k) The government will be utilizing electronic means for shop drawing distribution; contractor shall submit all shop drawings, in Portable Digital Format (PDF) without jeopardizing the integrity of the required government forms for these documents i.e. Adobe PDF portfolio and should be compatible with government used PDF software packages. Adobe PDF format of shop drawing cover sheets will be provided. Contractor shall be able to sign in digital format, PDF forms and Microsoft Office related document.
- (l) All transmittals typically requiring 11x17 inch paper or larger (fabrication, installation, coordination, control drawings, etc.) shall be submitted in 6 hard copies to the COR in addition to the electronic Adobe PDF submittal.
- (m) Access to the system will require coordination with the COR or Alt-COR. It is recommended that two personnel be appointed as the administrators from the Contractor's team as they will require a RSA SecurID token, which will be provided by the Government along with Cisco VPN software that is required to be installed and operated to log into the system

**J-A-3            RECORD DRAWINGS (MAR 2014)**

- (a) After completion of all construction and before final payment is made, the Contractor shall submit one complete set of full size blue line contract drawings with fully dimensioned changes shown in red pencil to the Contracting Officer.
- (b) The Contractor shall verify all dimensions and Geographical Information System (GIS) data shown on the contract drawings. Civil discipline systems, such as site dimensions and elevations, underground utilities, manholes, access points, paving, etc. and systems requiring state certifications, such as stormwater systems, shall require verification by a registered land surveyor. As-built dimensions and GIS data shall be at the same level of detail as the contract drawings.
- (c) All dimensional changes shall be reflected as corrected dimensions by striking through the dimension value with a single line and circling this change. A leader shall point from the actual, as-built dimension to the circled change. All utility routing and interface changes shall be reflected on the drawings to scale and defined with sufficient dimensions to be able to locate. Indicating by reference alone, for example to a change order number, will not be acceptable.
- (d) These record drawings shall be maintained by the Contractor at the work site and shall be updated based on job progress to reflect all changes and deviations and actual routing of all field-routed utilities and services. All lines, letters, and details shall be sharp, clear, and fully legible. All additions to the drawings shall be precisely drawn to scale of the original drawing and their locations shall be dimensioned.
- (e) **Final Systems Drawings for Wiring/Devices/Control Systems:**



**NASA/KSC SOLICITATION NNK15530485R**  
**ATTACHMENT J-A - PROJECT DELIVERABLES**

- (1) Final system drawings for wiring and control systems shall be prepared and submitted as described below, and in accordance with additional requirements as described in technical specifications.
- (2) Record drawings shall be made available for Government review on a monthly basis at the job site. This monthly review of record drawings will be part of the monthly monetary progress review.
- (3) Drawings for installation of wiring, devices and/or controls that require field routing must be red-lined, reproduced, verified for accuracy, and submitted for approval per the requirements set forth under the section entitled Shop Drawings herein a minimum of two weeks before requesting a final walkdown of the following systems. These drawings shall be labeled "FINAL SHOP DRAWINGS". In addition to hardcopy reproductions, the final drawings submittals shall include electronic files in Intergraph or Microstation format or in a Computer Aided Design (CAD) format compatible with Intergraph or Microstation.
- (4) Final Systems Drawings are required for:
  - (i) HVAC
  - (ii) Paging/Area Warning
  - (iii) Premise Wiring
  - (iv) Electrical control schematics and connection diagrams
  - (v) Elevators
  - (vi) Fire detection/suppression systems
  - (vii) Any other system involving wiring and controls, with the exception of facility lighting

**(f) Sewer System Certification:**

For all work involving sewer system installations or modifications, the Contractor shall provide to the Contracting Officer three (3) sets of drawings in the form of an As-Built Survey signed and sealed by a State of Florida Registered Land Surveyor for the sewer system. The as-built survey shall show all locations and invert elevations of the sewer system to verify that its placement is per contract drawings. The submittal shall be complete and sufficient for the Engineer's of Record certification to the Florida Department of Environmental Protection. The as-built survey level of detail shall be the same as shown in the contract drawings. If significant differences exist between the contract requirements and as-built conditions as evidenced by the survey, the differences shall be corrected and a new as-built survey made and submitted as before. Drawings shall be provided prior to the final inspection.

**NASA/KSC SOLICITATION NNK15530485R**  
**ATTACHMENT J-A - PROJECT DELIVERABLES**

- (g) Record drawings shall be made available for Government review on a monthly basis at the job site. This monthly review of record drawings will be part of the monthly monetary progress review.

**J-A-4 MISCELLANEOUS DOCUMENTATION (MAR 2014)**

- (a) Documentation submitted under this clause shall not be submitted as shop drawings.
- (b) The Contractor shall submit an original and one copy of all correspondence, delivery tickets, soil compaction reports, contractor daily reports, concrete test reports, and welding certifications or other worker qualification certifications, to the Contracting Officer.
- (c) The Contractor shall submit an original and four copies of all other documentation (except shop drawings) pertaining to this contract, including asbestos abatement plans, to the Contracting Officer.
- (d) In the event of a conflict within this contract, the provisions of this requirement shall take precedence over any other contractual requirement pertaining to the number of copies to be submitted except for shop drawings which shall be submitted in accordance with Article J-A-2, Shop Drawings, set forth under this Attachment J-A.

**J-A-5 PROGRESS SCHEDULES (OCT 2014)**

Pursuant to FAR 52.236-15, entitled "Schedules for Construction Contracts," the Contractor shall:

- (a) If, in the opinion of the Contracting Officer, the Contractor falls behind the approved baseline schedule, the Contractor shall take such steps as may be necessary to improve his progress, including those measures as directed by the Contracting Officer, without additional cost to the Government. The Contracting Officer may require the Contractor to start overtime operations and/or increase the number of shifts, or days of work. The Contractor will be required to submit for approval a recovery schedule or schedules as necessary to demonstrate the manner in which the agreed rate of progress will be regained, all without additional cost to the Government.
- (b) Prepare the Progress Schedule using standard commercially available scheduling software approved by the Contracting Officer.
- (c) Submit the Progress Schedule and Statement of Values (see paragraph g below), for approval by the Contracting Officer, at the Pre-Work Conference in four (4) copies. Include a copy of the electronic file using scheduling software. The approved initial Progress Schedule will be the baseline schedule for the project.
- (d) Include no less than the following information on the Progress Schedule:

**NASA/KSC SOLICITATION NNK15530485R**  
**ATTACHMENT J-A - PROJECT DELIVERABLES**

- (1) Major headings for primary project scope broken out in accordance with the Divisions and/or Sections of the project specifications.
- (2) Line item break-downs under each major heading sufficient to track the progress of the work.
- (3) A line item showing contract finalization tasks which includes Punch List, Clean-up and Demobilization, and Final Construction Drawings.
- (4) Appropriate level of detail under each line item or activity (compatible with the schedule of values) sufficient to track the cost and schedule performance, including scheduled vs. actual percentage complete for any given day within the contract performance period. (Progress schedules prepared using scheduling software shall include resource loaded activities [labor, material, and other resources), major deliveries, project milestones, etc.]. The Progress Schedule shall include, as a minimum, a materials bar and a separate labor bar for each line item.) Each element shall include the estimated cost and percentage weight of total contract cost. The labor element shall also show the number of workers expected to be working on any given date within the contract performance period.

For projects involving the installation or modification of Fire Alarm systems, include at a minimum the following line items on the Statement of Values:

- a. Fire Alarm Rough-In Material
- b. Fire Alarm Rough-In Labor
- c. Fire Alarm Trim Material
- d. Fire Alarm Trim Labor
- e. Fire Alarm Preliminary Testing
- f. Fire Alarm Final Testing

For projects involving the installation or modification of Building Controls (i.e. HVAC, lighting, etc) systems, include at a minimum the following line items on the schedule of values:

- a. Controls Rough-In Material
- b. Controls Rough-In Labor
- c. Controls Trim Material
- d. Controls Trim Labor

**NASA/KSC SOLICITATION NNK15530485R**  
**ATTACHMENT J-A - PROJECT DELIVERABLES**

e. Controls Testing

(5) Separate line items for Mobilization and Shop Drawing submittal and approval (these items are to show no associated costs).

(6) The Progress Schedule shall indicate the file date and status date (data date).

(e) Update the Progress Schedule every 30 calendar days throughout the contract performance period. All work that has not been completed in accordance with the previously approved schedule shall be rescheduled to reflect actual or planned progress based on the current status date. Submit four copies (and electronic file) to the Contracting Officer for approval. Progress Schedule updates shall be submitted concurrently with progress payment requests.

Additional notes:

(f) The Progress Schedule shall contain clearly defined and labeled relationships of the conventional type (i.e. Finish-to-Start (FS), Start-to-Start (SS) or Finish-to-Finish (FF)). Negative lags will not be permitted nor will positive lags inserted for the purpose of sequestering float. The Schedule shall contain only two open ends, one predecessor open end prior to NTP or Project Start and one successor open end following Project Complete. Activity date constraints shall be kept to a minimum, limited primarily to project and/or contractual milestones. Contract downtime shall be shown in the schedule as “downtime activities” or shall be specifically defined in project calendars. Downtime shall not be incorporated into activity durations.

(g) Statement of Values (SOV): To determine progress, one must submit a detailed continuation sheet of the contractor pay request (Statement of Values) in the native format, preferably compatible with Microsoft Excel. Detailed continuation sheet shall provide categories for:

- a. Item Number
- b. Description of the Work
- c. Scheduled Value
- d. Work Completed – Previous
- e. Work Completed - This Period
- f. Materials Presently Stored
- g. Total Completed and Stored To Date
- h. Total Percent Complete

**NASA/KSC SOLICITATION NNK15530485R**  
**ATTACHMENT J-A - PROJECT DELIVERABLES**

- i. Balance To Finish
- j. Retainage (if applicable)

**J-A-6                SCHEDULING (MAR 2014)**

The Contractor will be required to provide detailed scheduling information regarding planned operations to the Contracting Officer's designated representative for input to the LC 39 or Industrial area 72 hour/11-day operations schedule (a total of 14 days). This schedule input must be provided on a daily basis prior to 1:00 P.M. The schedule must show the Contractor's planned operations in detail for the next 3 days in hourly increments and in shift increments for the following 11 days.

All Contractor operations requiring support from KSC, such as outages or fire and safety standby, for hazardous operations, shall be identified.

**J-A-7                NFS 1852.223-73        SAFETY AND HEALTH PLAN (NOV 2004) (MODIFIED)**

The contractor, upon request by the Contracting Officer, shall submit a detailed site specific safety and occupational health plan in accordance with NPR 8715.3, NASA General Safety Program Requirements, Appendices and KNPR 8715.7 KSC Construction Contractor Safety and Health Practices Procedural Requirements. KSC-UG-2814, KSC Construction Contractor's Safety and Health Practices Users Guide, has a template the contractor should follow when preparing the site specific safety and occupational health plan. **Notice to Proceed with on-site work will be withheld pending approval of the site specific safety and health plan.**

The plan shall include detailed policies, procedures, and techniques that will be used to ensure the safety and occupational health of Contractor employees and to ensure safe working conditions throughout the performance of the contract.

The plan shall address the policies, procedures, and techniques that will be used to ensure the safety and occupational health of the public, astronauts and pilots, the NASA workforce, safety and occupational health of the public, astronauts and pilots, the NASA workforce (including Contractor employees working on NASA contracts) and high-valued equipment and property.

The plan shall take into account all work to be performed on the awarded contract. This plan shall address how the Contractor intends to comply with 29 CFR 1926 Safety and Health Regulations for Construction, applicable sections 29 CFR 1910 Safety and Health Regulations for General Industry, applicable national consensus standards, NASA and KSC Safety and Health Regulations and requirements with regard to all safety and health issues that will be encountered on this project.

The plan shall similarly address subcontractor employee safety and occupational health for those

**NASA/KSC SOLICITATION NNK15530485R**  
**ATTACHMENT J-A - PROJECT DELIVERABLES**

subcontractors who will be performing work under the contract when one or more of the following condition apply: (Note: Contractors may not delegate overall site safety responsibility or authority for any personnel working under the provisions of this section to any subcontractor).

- (1) The work will be conducted completely or partly on premises owned or controlled by the government.
- (2) The work includes construction, alteration, or repair of facilities in excess of the simplified acquisition threshold.
- (3) The work, regardless of place of performance, involves hazards that could endanger the public, astronauts and pilots, the NASA workforce (including Contractor employees working on NASA contracts), or high value equipment or property, and the hazards are not adequately addressed by Occupational Safety and Health Administration (OSHA) or Department of Transportation (DOT) regulations (if applicable).
- (4) When the assessed risk and consequences of a failure to properly manage and control the hazards warrants use of the clause.

The contractor shall submit a copy of their Log of Occupational Injuries and Illnesses that includes an annual summary of occupational injuries and illnesses (or equivalent) as described in Title 29, Code of Federal Regulations, Subpart 1904.5. If the Contractor is exempt by regulation from maintaining and publishing such logs, equivalent data in contractor's format is acceptable (such as loss runs from insurance carrier) which contains the data required. Data shall be compiled and reported by calendar year and the most recent summary shall be provided at the same time as the site specific safety and health plan.

The contractor shall also submit documentation containing the company's Experience Modification Rate (EMR), Days Away, Restricted or Transferred rate (DART), and Total Case Incident Rate for injury and illnesses (TCIR) for the past 3 years.

This site specific safety and health plan, as approved by the Contracting Officer, will be incorporated into the contract.

(End of clause)

**J-A-8            TOXIC METALS SAFETY AND HEALTH PLAN (MAR 2014)**

The use of paints containing heavy metals and polychlorinated biphenyls (PCB) has been commonplace at the Kennedy Space Center. The Contractor shall assume that all existing painted surfaces encountered in the performance of work contain heavy metals and PCB when developing the Toxic Metals Safety and Health Plan and performing work. The Contractor may, at his discretion, test any painted surfaces, in accordance with appropriate regulatory standards, to determine the absence of heavy metals and PCB in the paint.

**NASA/KSC SOLICITATION NNK15530485R**  
**ATTACHMENT J-A - PROJECT DELIVERABLES**

In addition to and separate from the Safety and Health Plan required under this solicitation/contract, the Contractor shall submit a detailed Toxic Metals Safety and Health Plan. The Toxic Metals Safety and Health Plan shall disclose how the Contractor intends to protect NASA and contractor employees as well as the environment from toxic metals during the ongoing activities of this contract. The contractor shall submit a minimum of five (5) copies of the Toxic Metals Safety and Health Plan for review and approval by the Contracting Officer. The Contracting Officer will forward one copy each to TA-B1 for review.

The Toxic Metals Safety and Health Plan shall provide a description of the Contractor's approach to contain and control dusts, fumes and other airborne or waterborne emissions from the work site for the protection of other personnel at the work location and the environment. This part of the plan shall also discuss monitoring activities during the work in progress to assure the effectiveness of the Contractor's emission control measures.

The Toxic Metals Safety and Health Plan shall also provide written policies, plans, and procedures detailing how the contractor intends to comply with the Occupational Safety and Health Administration (OSHA) Construction Industry Standards (29 CFR 1926) and applicable General Industry Standards (29 CFR 1910). As a minimum, the Toxic Metals Safety and Health Plan shall address how compliance with the following regulations will be achieved:

19 CFR, Part 1926, Safety and Health Regulations for Construction,  
Subpart D, Occupational Safety & Health Environmental Controls

1926.55, Gases, Vapors, Fumes, Mists, and Dusts

1926.59, Hazard Communication

1926.62, Lead

1926.1127, Cadmium, Subpart E, Personal Protective and Life Saving Equipment

1926.103, Respiratory Protection

1926.353, Ventilation and Protection in welding cutting, and heating

1926.154, Welding, cutting, and heating in way of preservative coatings.

KHB 1840.1 (Latest Edition), KSC Industrial Hygiene Handbook, as applicable

KHB 1820.4 (Latest Edition), KSC Respiratory Protection Program, as applicable

The regulations require strict contractor adherence but are not limited to items such as employee training, respiratory protection, protective clothing and equipment, employee medical surveillance, hygiene facilities, warning signs, record keeping, air monitoring, and

**NASA/KSC SOLICITATION NNK15530485R**  
**ATTACHMENT J-A - PROJECT DELIVERABLES**

housekeeping.

**J-A-9            LIFTING PLAN AND RIGGING PLAN (MAR 2014)**

A detailed Lifting and Rigging Plan shall be submitted by the Contractor 14 days prior to lifting operations. Lifting operations include work performed within KSC that requires the use of cranes or lifting equipment to include chokers, slings, and shackles used to move material, personnel, and equipment to/from heights in excess of 25 feet. One lifting and rigging plan may be submitted for multiple lifts using the same equipment by utilizing the most stringent applicable conditions. Four (4) copies of a detailed Lifting and Rigging Plan shall be submitted for approval to the Contracting Office using the attached form. The lifting plan shall address:

1. The specific crane(s) lifting and rigging equipment that will be on site
2. The maximum swing radius to be used and the degrees in relation to the crane, such as 360 degrees over the counterweight, etc.
3. A sketch of where the crane will be located in relation to where the loads will be situated
4. The estimated maximum load weights
5. The type and weight of rigging to be used and how it will be configured
6. A copy of the crane capacity chart to be used
7. A copy of all crane deductions
8. Maximum crane boom to be used
9. Counterweight configurations
10. Certifications of the crane, operator, and rigging
11. Certifications of rigging personnel
12. General narrative description of lift operations, plan of approach, and safety measures to be implemented during the lifting operations



**NASA/KSC SOLICITATION NNK15530485R**  
**ATTACHMENT J-A - PROJECT DELIVERABLES**

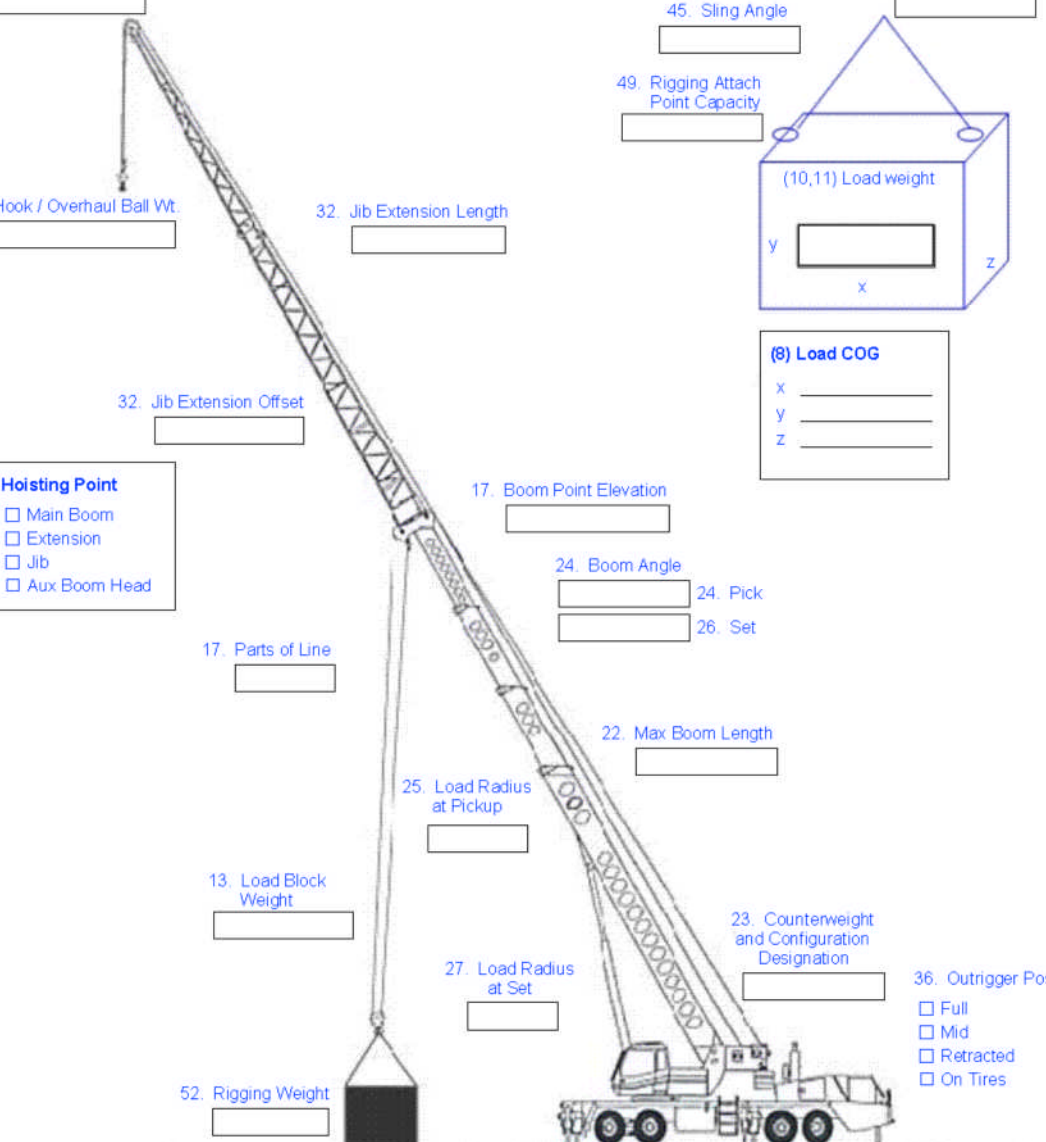
<b>Kennedy Space Center Lift Plan for Construction Contractors</b>				
<p>This document is for use by construction contractors performing work for Kennedy Space Center. It is recommended for all lifts and will satisfy the lift planning requirements in accordance with OSHA and NASA regulations and contract requirements. A lift plan is <u>mandatory</u> when: 1) lifting personnel with a crane, 2) the load exceeds 75% of the crane's capacity in a given configuration, 3) the lift requires more than one crane, 4) during demolition when the actual weight or structural integrity of the load are in doubt, 5) when the operation is within a boom length of power lines, 6) when lifting over active work areas, occupied buildings, or public roadways, or 7) lifts of submerged or partially submerged objects. For further assistance, please contact the KSC Institutional Safety Office at 867-SAFE.</p>				
1. Company Name		Name and Signature of Person Preparing this Lift Plan		2. Date
3. Project Name and Job Location				
4. Load Description				
5. Crane Description - Type, Manufacturer, Model # <i>(multiple crane lifts require separate plan for each crane)</i>				
6. Lift Description <i>(attach diagram of lift and load placement)</i>				
LOAD			CRANE (continued)	
7. Load Condition <i>(describe)</i>			27. Radius at Set-down	ft
8. Known Center of Gravity? <i>(Attach diagram)</i>			28. Capacity at minimum boom angle / maximum radius <i>(Attach copy of actual load chart used)</i>	lbs
9. Source of Load Weight <i>(attach a copy of drawings, calculations, bill of lading, etc.)</i>			29. Maximum load on crane for <u>this lift</u> <i>(Gross Load from Block 20)</i>	lbs
10. Load Weight Empty		lbs	30. Percentage of the crane's rated capacity in this configuration	%
11. Weight of Load Contents / Fluids		lbs	<b>JIB/FLY</b>	
12. Weight of Auxillary Block		lbs	31. Erected _____ Stowed _____ Stored _____	
13. Weight of Main Block		lbs	32. If jib / fly is used: Length = _____ Angle = _____	
14. Weight of Lifting Beam <i>(See Block 50)</i>		lbs	33. Rated capacity of jib / fly from chart = _____	
15. Weight of Slings / Shackles / Other Rigging <i>(See Blocks 42 thru 52)</i>		lbs	34. Weight of Jib if installed but not in use	lbs
16. Deduction for Jib / Fly <i>(if applicable)</i> <i>(See Block 34)</i>		lbs	<b>CRANE SETUP/OTHER CONSIDERATIONS</b>	
17. Weight of Hoist Rope <i>(if applicable)</i>		lbs	35. Soil conditions / level / underground hazards / Crane mat required?	
18. Weight of Auxillary Head/Rope <i>(if applicable)</i>		lbs	36. Outriggers <i>(full / partial)</i> / pads / matting / on rubber? <input type="checkbox"/> Yes <input type="checkbox"/> No	
19. Additional Deductions <i>(list if applicable)</i>		lbs	37. Buildings, equipment, or structure to lift / swing over?	
20. Gross Load <i>(Add Block 10 thru 19)</i>		lbs	38. Travel required? <input type="checkbox"/> Yes <input type="checkbox"/> No	
<b>CRANE</b>			39. Working quadrants / swing restrictions?	
21. Boom Configuration			40. High voltage / electrical hazards/other hazards?	
22. Boom Length		ft	41. Other Considerations? <i>(Head room, winds, taglines, traffic, etc.)</i> Add to Block 6	
23. Counterweight		lbs	<b>RIGGING</b>	
24. Boom angle at Pick-up		°	42. Slings <i>(number, size, type)</i>	
25. Radius at Pick-up		ft	43. Slings rated capacity per configuration <i>(See Block 45)</i>	
26. Boom angle at Set-down		°	44. Total Weight of slings	lbs

# NASA/KSC SOLICITATION NNK15530485R

## ATTACHMENT J-A - PROJECT DELIVERABLES

RIGGING (continued)		REQUIRED ATTACHMENTS	
45. Hitch (vertical, basket, choker) Sling Configuration Angle _____ ° deg		53. Load placement diagram showing location of pick & final place points	<input type="checkbox"/>
46. Shackles (number, size)		54. Rigging diagram with sling angles, expected loads, & load CG	<input type="checkbox"/>
47. Shackles rated capacity		55. Photocopy of actual load charts used to calculate crane capacity	<input type="checkbox"/>
48. Total Weight of Shackles	lbs	56. Rigging certifications	<input type="checkbox"/>
49. Spreader Beam/Other rigging required? (Type, Size, Capacity)		57. Rigging load limit charts (Safe Working Load Limit)	<input type="checkbox"/>
50. Weight of Spreader Beam/other rigging	lbs	58. Crane certification (Annual/Daily Checklist)	<input type="checkbox"/>
51. Connection to Load capacity each (lugs, bollards, pad eyes, none)		59. Operators certification	<input type="checkbox"/>
52. Total Weight of all rigging (Add lines 44, 48, 50 and 51)	lbs	60. Rigger qualification document(s)	<input type="checkbox"/>
		61. Narrative of lift procedures (See item 6)	<input type="checkbox"/>
		62. Source of load weight (See Items 8 & 9)	<input type="checkbox"/>
		63. Others _____	<input type="checkbox"/>
<b>I certify that all information contained herein has been reviewed for accuracy and correctness.</b>			
Submitting Official Signature	Name & Title	Date	
<b>FOR NASA USE ONLY (please initial)</b>			
Institutional Safety:	Accept	Accept with Changes:	Not Accepted
Lifting Device's Equipment Manager:	Accept	Accept with Changes:	Not Accepted
Contracting Officer:	Approve:	Disapprove:	
<p style="text-align: center;"><b>Instructions for Kennedy Space Center Lift Plan for Construction Contractors</b></p> <ol style="list-style-type: none"> <li>1. Name of contractor performing the lift. Include name of person preparing this lift plan.</li> <li>2. Date lift plan was prepared.</li> <li>3. Project name and actual location of lift.</li> <li>4. Describe the load and any special considerations.</li> <li>5. Self-explanatory.</li> <li>6. Brief description of pickup and placement of load. Attach diagrams as necessary.</li> <li>7. Describe the load and any special considerations (e.g., dry, solid, filled with liquid, empty, stable, unstable, etc.).</li> <li>8. Is the load's center of gravity known? If so where is it documented? Attach diagram. <b>(On Lift Plan Worksheet)</b></li> <li>9. Document the source of load weight (e.g., drawings, calculations, bill of lading, etc.).</li> <li>10. - 18. Self-explanatory. <b>(On Lift Plan Worksheet)</b></li> <li>19. List all additional deductions and weights.</li> <li>20. Add Block 10 through Block 19. <b>(On Lift Plan Worksheet)</b></li> <li>21. Describe boom configuration. Refer to manufacturer's terminology.</li> <li>22. - 27. Self explanatory. <b>(On Lift Plan Worksheet)</b></li> <li>28. Crane's rated capacity at minimum boom angle / maximum radius. Figure worst case between pick and place.</li> <li>29. Copy Gross Load from Block #20.</li> <li>30. Block #29 divided by Block #28.</li> <li>31. Check to indicate jib / fly erected, stowed, or stored off the crane.</li> <li>32. If the jib is used, enter the length of the boom in feet and the angle in degrees. <b>(On Lift Plan Worksheet)</b></li> <li>33. List the jib capacity from the Fly from chart.</li> <li>34. The weight of the jib if it is installed on the boom but is not being used during the lift. <b>(On Lift Plan Worksheet)</b></li> <li>35. Describe site, soil, stability conditions and any underground hazards or concerns.</li> <li>36. Describe outrigger setup and required matting if applicable. <b>(On Lift Plan Worksheet)</b></li> <li>37. Describe considerations for buildings, structures, or equipment which will be under the load during the lift.</li> <li>38. Describe crane travel with load on the hook if required.</li> <li>39. Describe planned crane working quadrant(s) and any swing restrictions.</li> <li>40. Describe any electrical hazards or concerns in close proximity to the crane.</li> <li>41. Describe other considerations of note such as restricted head room, use of taglines, reduced wind limitations, traffic control, etc.</li> <li>42. Describe slings to be used.</li> <li>43. In the planned configuration, list the maximum rated capacity the sling can lift in lbs. <b>(On Lift Plan Worksheet)</b></li> <li>44. The weight of the sling to be used.</li> <li>45. The type of hitch to be used and its sling configuration angle (choker, vertical, basket). <b>(On Lift Plan Worksheet)</b></li> <li>46. Describe shackles to be used, number and size.</li> <li>47. The maximum rated capacity each shackle can lift in lbs.</li> <li>48. The total weight of all shackles used.</li> <li>49. List Spreader beam / other rigging used. State type, size, and capacity.</li> <li>50. Self explanatory.</li> <li>51. Self explanatory. <b>(On Lift Plan Worksheet)</b></li> <li>52. The total weight of all rigging that will be used.</li> <li>53. - 63. Self explanatory.</li> </ol>			

**NASA/KSC SOLICITATION NNK15530485R  
ATTACHMENT J-A - PROJECT DELIVERABLES**

Lift Planning Worksheet	
<p>17. Aux Hoist / Whip Line Not in Use</p> <div style="border: 1px solid black; height: 20px; width: 100%;"></div>	<p>43. Sling Capacity</p> <div style="border: 1px solid black; height: 20px; width: 100%;"></div>
<p>12. Hook / Overhaul Ball Wt.</p> <div style="border: 1px solid black; height: 20px; width: 100%;"></div>	<p>45. Sling Angle</p> <div style="border: 1px solid black; height: 20px; width: 100%;"></div>
<p>32. Jib Extension Length</p> <div style="border: 1px solid black; height: 20px; width: 100%;"></div>	<p>49. Rigging Attach Point Capacity</p> <div style="border: 1px solid black; height: 20px; width: 100%;"></div>
<p>32. Jib Extension Offset</p> <div style="border: 1px solid black; height: 20px; width: 100%;"></div>	<div style="border: 1px solid black; padding: 5px;"> <p>(10,11) Load weight</p> <div style="border: 1px solid black; height: 20px; width: 100%;"></div> </div>
<div style="border: 1px solid black; padding: 5px;"> <p><b>Hoisting Point</b></p> <p><input type="checkbox"/> Main Boom</p> <p><input type="checkbox"/> Extension</p> <p><input type="checkbox"/> Jib</p> <p><input type="checkbox"/> Aux Boom Head</p> </div>	<div style="border: 1px solid black; padding: 5px;"> <p><b>(8) Load COG</b></p> <p>x _____</p> <p>y _____</p> <p>z _____</p> </div>
<p>17. Parts of Line</p> <div style="border: 1px solid black; height: 20px; width: 100%;"></div>	<p>17. Boom Point Elevation</p> <div style="border: 1px solid black; height: 20px; width: 100%;"></div>
<p>13. Load Block Weight</p> <div style="border: 1px solid black; height: 20px; width: 100%;"></div>	<p>24. Boom Angle</p> <div style="border: 1px solid black; height: 20px; width: 100%;"></div>
<p>25. Load Radius at Pickup</p> <div style="border: 1px solid black; height: 20px; width: 100%;"></div>	<p>24. Pick</p> <div style="border: 1px solid black; height: 20px; width: 100%;"></div>
<p>27. Load Radius at Set</p> <div style="border: 1px solid black; height: 20px; width: 100%;"></div>	<p>26. Set</p> <div style="border: 1px solid black; height: 20px; width: 100%;"></div>
<p>52. Rigging Weight</p> <div style="border: 1px solid black; height: 20px; width: 100%;"></div>	<p>22. Max Boom Length</p> <div style="border: 1px solid black; height: 20px; width: 100%;"></div>
	
<p>23. Counterweight and Configuration Designation</p> <div style="border: 1px solid black; height: 20px; width: 100%;"></div>	
<p>36. Outrigger Position</p> <p><input type="checkbox"/> Full</p> <p><input type="checkbox"/> Mid</p> <p><input type="checkbox"/> Retracted</p> <p><input type="checkbox"/> On Tires</p>	
<p><b>Refer to operator's manual and all notes and warnings for crane-specific information</b></p>	

**NASA/KSC SOLICITATION NNK15530485R  
ATTACHMENT J-A - PROJECT DELIVERABLES**

<b>Load Weight Field Verification</b>			
<b>Lift</b>	<b>Equipment Item</b>	<b>Weight</b>	<b>Crane Operator's Verification (Name &amp; Initials)</b>
<b>1</b>			
	Total Weight: Maximum Radius:		
<b>2</b>			
	Total Weight: Maximum Radius:		
<b>3</b>			
	Total Weight: Maximum Radius:		
<b>4</b>			
	Total Weight: Maximum Radius:		
<b>5</b>			
	Total Weight: Maximum Radius:		

**NASA/KSC SOLICITATION NNK15530485R**  
**ATTACHMENT J-B – KSC PROJECT SPECIFIC REQUIREMENTS**

**KENNEDY SPACE CENTER PROJECT SPECIFIC REQUIREMENTS APPLICABLE TO ALL  
WORK PERFORMED UNDER THIS CONTRACT**

The Kennedy Space Center project specific requirements supporting Contract Section I are identified in this Attachment J-B. Nothing contained in this Attachment J-B shall relieve the Contractor from complying with other requirements of this contract, which are not identified and described in this Attachment J-B. All costs associated with the requirements of this Attachment J-B are included in the firm-fixed price of this contract.

**J-B-1            UTILITY OUTAGE, ENERGIZED ELECTRICAL WORK, ELECTRICAL  
HAZARD ANALYSIS, AND EXCAVATION PERMITS (MAR 2014)**

(a) Utility Outage Requests and Electrical Work Permits

- (1) Utility Outage Requests: All outages required during the prosecution of work which affects utility systems, such as electrical, water, fire detection and protection systems and air handling systems will require permits. Work shall be scheduled to hold outages to a minimum. Request for utility outage permits shall be made in writing to the Contracting Officer at least fourteen (14) working days in advance of the time required. The request shall state the system involved, area involved, approximate time of outage, and the nature of the work involved. The fact that the Contractor requests an outage for a specific time period does not necessarily mean that the outage will take place. Due to the nature of the operations at Kennedy Space Center, the Contractor probably will not know until the day before the requested date if the outage will take place as scheduled. All outages will take place outside regular working hours. The Contractor will not be entitled to additional payment for working irregular hours due to outages.
- (2) Electrical Work Permits: Prior to beginning work on an electrical system under an approved outage, the Contractor shall obtain an executed Work Permit (form number KSC-26-400NS) from the Institutional Services Contractor, and then execute complex lockout/tag-out procedures for all Work Permit related work as follows:
  - a. The Contractor's employee in charge of the required lockout/tag-out shall be present at the time the Government switches high-, medium-, or low-voltage circuits under Government access control which are to be locked and tagged out by the Contractor. The Contractor shall coordinate with the Contracting Officer's Representative (COR) for the required switching period time and date. Due to KSC operational considerations the switching period time and date may be at any time, and outside of normal working hours or work days.
  - e. Once Government switching is complete the Contractor's employee in charge of the lockout/tag-out shall sign the Work Permit and immediately install the required OSHA compliant lockout / tag-out on the required switching device(s). Once installed the Contractor's employee in charge of

**NASA/KSC SOLICITATION NNK15530485R**  
**ATTACHMENT J-B – KSC PROJECT SPECIFIC REQUIREMENTS**

the lockout/tag-out shall individually note the locations of the locks and tags on the Work Permit form.

- f.** A lockout/tag-out lock box shall be used for all such lockout / tag-outs. The key(s) from the lock(s) installed by the Contractor's employee in charge of the lockout/tag-out shall be placed in the box and the employee in charge shall place an additional personal lock on the lock box to secure the keys inside. Lock box shall be kept at the work site and all other Contractor employees shall attach their personal lockout/tag-out on this box at any time they are working on the applicable equipment.
- g.** At the start of the first standard work period following the lockout/tag-out of a Government switched circuit for which a Work Permit is issued, the Contractor's employee in charge of the lockout/tag-out shall complete the required lockout/tag-out (lock box) procedures. Immediately upon completing the lockout/tag-out the Contractor shall verify no voltage is present on all circuit conductors using suitable testing equipment, safe work practices, and all required personal protective equipment. All other circuit safeguards such as grounding shall occur immediately after the voltage test and each safeguard shall be individually recorded on the Work Permit.

**(b) Energized Electrical Work and Hazard Analysis**

- (1)** Live parts to which an employee might be exposed shall be put into an electrically safe work condition before an employee works on or near them, unless the employer can demonstrate that de-energizing introduces additional or increased hazards or is infeasible due to equipment design or operational limitations. If live parts are not placed in an electrically safe work condition (i.e., due to increased or additional hazards or infeasibility), work to be performed shall be considered energized electrical work. Safety plans, job hazard analysis, and work practices for work on or in proximity to energized parts shall be in accordance with KNPR 8715.7, KSC Construction Contractor Safety and Health Practices Procedural Requirements.

**(2) Electrical Hazard Analysis:**

Arc-flash and shock prevention personal protective equipment (PPE) is required for all energized electrical work and where energized or exposed live parts may not be present, but a potential hazard exists including: manhole or cable vault/tray insulated cable inspections, circuit breaker or switch operation, and de-energized voltage checks to electrically safe equipment.

The Contractor shall provide a qualified electrical safety professional to perform an arc-flash and shock hazard analysis in accordance with NFPA 70E for all such electrical work. The analysis shall be submitted with the Contractor's Site Specific Safety Plan (SSSP) and referenced in any applicable Job Hazard Analysis (JHA). The safety professional shall perform and review a power system analysis using computer software specifically designed for the purpose to determine short circuit levels and arc flash hazard incident energy at all locations to be worked on by the Contractor. Table 130.7(C)(9) in NFPA 70E

**NASA/KSC SOLICITATION NNK15530485R**  
**ATTACHMENT J-B – KSC PROJECT SPECIFIC REQUIREMENTS**

may be used in lieu of calculations when all applicable general notes for the table apply. The Government will provide source short circuit levels and clearing times for Government operated electrical source equipment as well as any applicable design information. The analysis shall include a table summarizing the results of the analysis with the following information for each location or piece of equipment:

- i. Protective Device Name
- ii. Protective Device Clearing Time
- iii. Maximum Voltage
- iv. Calculated Bolted Three Phase Fault Level
- v. Calculated Bolted Ground Fault Level
- vi. Calculated Minimum Arcing Fault Level
- vii. Arc-Distance if applicable for the calculation
- viii. Employee Working Distance
- ix. Calculated Arc-Flash Boundary
- x. Calculated Maximum Arc-Flash Incident Energy
- xi. Arc-Flash PPE Category
- xii. Shock Prevention PPE Insulating Class
- xiii. Limited Approach Boundary
- xiv. Restricted Approach Boundary
- xv. Prohibited Approach Boundary

- (3) Electrical Manhole / Vault Confined Space Requirements: Reference KNPR 8715.7, KSC Construction Contractor Safety and Health Practices Procedural Requirements. During the site specific safety plan submittal phase, the Contractor shall complete a hazard evaluation of confined space(s) ensuring all hazards associated with the space or that may be introduced to the space have been identified and mitigated. The Contractor's designated safety professional shall coordinate with the Contracting Officer's Representative (COR) to complete a confined space hazard assessment (KSC Form 28-750NS) in accordance with KNPR 1840.19 for each confined space, and to schedule a job-site inspection meeting with KSC Environmental Health and Safety personnel. Within 35 calendar days after this

**NASA/KSC SOLICITATION NNK15530485R**  
**ATTACHMENT J-B – KSC PROJECT SPECIFIC REQUIREMENTS**

meeting the COR will provide a confined space hazard assessment to the Contractor. This assessment must be complete prior to any manhole entry and will be used in generating the confined space entry permit(s) required for the project.

The contractor shall provide supplementary lighting for all manhole work.

(c) Excavation Permits:

The Contractor shall request and obtain excavation permit(s) prior to performing any excavation. KSC Form 26-312V3 NS, Utility Locate/Excavation Permit Request, shall be prepared by the Contractor and submitted to the Government for approval at least 15 working days prior to the planned excavation date. The Contractor shall comply with the requirements of the Institutional Base Support Contractor's "Utility Locate / Excavation Permit Procedure" ENG-I-MP07 (latest revision), in the preparation, submission and use of the permit(s).

**J-B-2            FIRE PROTECTION AND REQUIRED PERMITS (MAR 2014)**

The KSC Fire Department will provide fire suppression, inspection and rescue services to the Contractor as necessary. The Contractor shall:

- (a) Provide approved fire extinguishers of appropriate type for hazards involved.
- (b) Report all fires to the Fire Service at 867-7911 or 867-1911.
- (c) Comply with all requirements of KHB 1710.2C Section 504 (Heat Producing Devices) and NSS 1740.11 "NASA Safety Standard for Fire Protection" Section 702 and Chapter 8 for work performed at the Kennedy Space Center.
- (d) Provide a fire watch in accordance with Federal OSHA Safety and Health Standards 29 CFR 1926.352/1910.252 when required by the welding and burning permitting official.
- (e) Prevent false fire alarms by providing 24-hour advance notice to the Contracting Officer's Representative (COR) when construction activities in areas protected by fire alarm and/or detection systems may produce airborne particulates (smoke or dust) caused by construction activities such as painting, stripping, cutting drywall or concrete, sandblasting, and/or removing raised floor panels.
- (f) Request permits for all welding and burning operations. Requests for these permits shall be made in writing to the Government at least seven (7) working days in advance of the time required.
- (g) Report in the Contractor's Safety and Health Plan in accordance with NFS 1852.223-73 how it intends to comply with the above requirements.



**NASA/KSC SOLICITATION NNK15530485R**  
**ATTACHMENT J-B – KSC PROJECT SPECIFIC REQUIREMENTS**

**J-B-3                    PERMANENTLY INSTALLED SAFETY SYSTEMS (MAR 2014)**

- (a) The Contractor shall protect and in no way interrupt the service of any installed safety systems or personnel safety devices.
- (b) In the event that the Contractor requires entrance into systems serving safety devices, the Contractor shall obtain prior approval from the Contracting Officer. In the event the Contractor determines that it is necessary to temporarily remove or render inoperable any personnel safety devices in order to accomplish contract requirements, the Contractor shall provide alternate means of protection prior to removing or rendering inoperable any permanently installed safety devices or equipment and shall obtain prior approval of the Contracting Officer.

**J-B-4                    BREATHING AIR COMPATIBILITY (MAR 2014)**

- (a) The contractor shall take precautions to assure that connectors used in contractor-supplied breathing air systems are incompatible with connectors present on either KSC gas systems or on contractor supplied systems that are used to supply non-respirable gases. KSC-STD-Z0008, 'Standard for Design of Ground Life Support Systems and Equipment', establishes requirements for connectors to be used in KSC facility breathing air and non-respirable gas systems. Facility breathing air systems located at KSC/CCAFS are to use a Hansen 3/8 inch quick disconnect as a breathing air distribution interface. KSC facility non-respirable gas systems are to use 1/4 inch quick disconnects for gas distribution interfaces. Although most facility systems were designed in accordance with this standard, there are nonconforming locations at KSC/CCAFS.
- (b) The Contractor may use KSC facility breathing air systems, if available at the work location. The contractor shall perform a pre-work site inspection to identify coupling types in use at the work location before mobilizing or using any breathing air equipment. The contractor shall also submit a written certification to show the contractor's breathing air system has been recently inspected and meets Grade D breathing air standards. Alternately, the contractor may arrange for on-site testing of contractor-supplied breathing air by the Government at least five days prior to start of work. In addition, the contractor shall also provide a work site evaluation for the NASA Safety Office to review before using any breathing air system. The breathing air test and the safety inspection can be coordinated through the Contracting Officer, and will be at no cost to the contractor.
- (c) The contractor shall tag or label connector ends of all lines and flexible hoses of contractor-provided breathing air or non-respirable gas distribution systems. The tags or labels will clearly identify the contents of the lines or hoses.
- (d) The contractor shall provide a description of the steps taken to comply with the requirements of this clause in their safety plan submittal.

**NASA/KSC SOLICITATION NNK15530485R**  
**ATTACHMENT J-B – KSC PROJECT SPECIFIC REQUIREMENTS**

**J-B-5           TRAFFIC RESTRICTIONS (MAR 2014)**

- (a) The Contractor will not move oversized loads and/or slow moving vehicles on established roads within the Kennedy Space Center from 6:30 A.M. to 8:30 A.M. and 3:30 P.M. to 5:30 P.M. on week days. Other than the above restricted hours, the Contractor may move oversize and/or slow moving vehicles to the work site provided all requirements of the Florida State Highway Department have been met.
- (b) Movement of any Contractor vehicle in excess of maximum width, height and length specified by Florida Statutes Chapter 316 shall be accompanied by the Contractor's designated Convoy Commander. The Contractor's Convoy Commander shall be totally responsible for the oversized vehicular movement to include making a physical inspection for possible obstructions along the intended route and obtaining all required special permits.

**J-B-6           STORAGE AND PROTECTION OF MATERIAL TO BE RE-USED (MAR 2014)**

All items of material to be removed and re-installed by the Contractor shall be protected during removal and stored in a manner such that the material will not be damaged during removal or storage. Any material designated for re-use, which is not suitable due to the Contractor's damage, will be replaced by the Contractor at no additional cost to the Government.

**J-B-7           MAINTENANCE OF GOVERNMENT EQUIPMENT (MAR 2014)**

- (a) Government systems and equipment in the Contractor's work area may require servicing, maintenance, or modification by Government support contractors during the contract performance period. This maintenance activity may include work on systems, including underground utilities, that connect with Contractor installed systems and equipment. The Contractor shall allow the Government support contractors into his work area to perform the maintenance work.
- (b) Existing systems and equipment require periodic maintenance that cannot be readily defined in terms of frequency and duration. This maintenance will be coordinated with the Contractor through the Contracting Officer, and will be performed on a non-interference basis as much as possible. The Contractor shall notify the Contracting Officer regarding any uncoordinated maintenance activity.
- (c) The Contractor shall arrange and conduct a joint pre-operations briefing with Government support contractor personnel on each occasion that the support contractor requires access to the contractor's work area. The Contractor shall take the following steps as required to prevent collateral damage to, or interference with, Contractor installed systems and equipment.
  - (1) Verify the scope and limits of the support contractor's planned maintenance activity.
  - (2) Advise the support contractor regarding the scope of the Contractor's work that may be affected by the maintenance activity, including specific locations and dimensions of

**NASA/KSC SOLICITATION NNK15530485R**  
**ATTACHMENT J-B – KSC PROJECT SPECIFIC REQUIREMENTS**

planned or installed facilities, systems and equipment. Notify the Contracting Officer immediately regarding any resulting conflicts or interferences.

- (3) Ensure that temporary barriers or protective measures are provided as needed to protect Contractor installed work and preserve job-site safety.

**The Contractor shall notify the Contracting Officer immediately regarding any issues that cannot be resolved with the support contractor.**

**J-B-8 AVIATION OBSTRUCTION LIGHTS (MAR 2014)**

The Contractor will provide at least two Aviation Red Obstruction Lights or two High Intensity White Obstruction Lights on all structures over 100 feet above ground level. All construction cranes/booms shall be lighted regardless of height. Lights must be constructed and installed in accordance with U.S. Department of Transportation, Federal Aviation Administration publication AC 70/7460-1F (as revised), Chapter 4, paragraph 15, subparagraph e. Lights will be operated during all periods of reduced visibility, between sunset and sunrise, and as directed by the Contracting Officer.

**J-B-9 INTERFERENCES AND COORDINATION OF WORK (MAR 2014)**

- i. The Contractor shall coordinate construction layout, systems configuration and work scheduling to avoid interference's between the various construction trades and their installations. Interferences and obstructions resulting from lack of Contractor coordination shall be corrected by the Contractor as approved by the Contracting Officer. All components, fittings and reworking necessary for such corrections shall be provided by the Contractor at no additional cost to the government. Dimensions shown for existing work, and all dimensions required for work that is to connect to existing work, shall be verified by the Contractor by actual field measurement of the existing work. Any work at variance with that specified or shown in the drawings shall not be performed by the Contractor until approved in writing by the Contracting Officer.
- ii. To the extent possible, the as-built dimensions of all new work shall be verified by actual field measurement prior to ordering or fabricating mechanical, electrical, or specialty equipment and materials to be installed. If such field measurement is not possible, then the contract drawings and applicable shop drawings shall be checked by the contractor for dimensional accuracy prior to ordering or fabricating equipment and materials to ensure proper fit for field installation.
- iii. The Contractor shall be responsible for correction of all field fitup problems and interferences which could have been avoided by field measurement or drawing checks prior to equipment fabrication.

**NASA/KSC SOLICITATION NNK15530485R**  
**ATTACHMENT J-B – KSC PROJECT SPECIFIC REQUIREMENTS**

**J-B-10            RESTORATION OF GRASSED AREAS DISTURBED BY CONSTRUCTION (MAR 2014)**

The Contractor shall, prior to completion of the contract, grass all areas disturbed by construction activities by seeding and mulching or, when erosion may occur, by sodding, except where specifically directed otherwise in the drawings and specifications.

**J-B-11            TEMPORARY CONSTRUCTION TRAILERS (MAR 2014)**

- (a) The Government will provide a location for temporary office and/or storage facilities if needed for performance of on-site work under this contract. Specific location(s) at or reasonably close to the work site will be identified at the pre-work conference. The contractor is responsible for providing his own telephone service and for making his own connections to KSC utility services, if provided for under Article I.12, KSC On-Site Facilities and Services.
- (b) All temporary facilities must be structurally sound, in roadworthy condition, and shall be installed and anchored in accordance with KSC-PLN-1904, Trailer/Equipment Tie Down Plan for the John F. Kennedy Space Center; or Rules of Department of Highway Safety and Motor Vehicles, Division of Motor Vehicles Chapter 15C-1, whichever is more stringent. Copies of the standards will be made available to the contractor at the pre-work conference. The contractor shall provide written certification of compliance for all temporary facilities to the Contracting Officer within three days of installation. Any facilities that fail to meet these requirements shall be immediately removed from Government property.
- (c) All temporary facilities shall be removed from government property within two weeks following final acceptance of work performed under this contract.

**J-B-12            CONFINED SPACE WORK REQUIREMENTS (MAR 2014)**

- (a) Special requirements, coordination, and precautions will apply to any contract work taking place in confined spaces. Each contractor contracted to perform work in confined spaces is required to provide a written program for such work as part of its health and safety plan which is consistent with the requirements of 29 CFR 1910.146. For work in telecommunications manholes, provisions of 29 CFR 1910.268(o) are also applicable. The contractor shall coordinate any such work in confined spaces with the KSC Environmental Health Support Contractor, KSC Fire Services Support Contractor, and any other resident government or contractor organization whose employees may have access to the work location. The provision of Environmental Health services by the government does not prohibit the contractor from providing their own atmospheric testing. Government provided services include environmental health monitoring and consultation support for testing of atmospheres in confined spaces as well as fire rescue and emergency medical services.
- (b) Entry into and work in confined spaces shall be in accordance with the requirements of KNPR 1820.4, "KSC Respiratory Protection Program," KNPR 1840.19, "KSC Industrial Hygiene Handbook," and all other applicable clauses of this contract.

**NASA/KSC SOLICITATION NNK15530485R**  
**ATTACHMENT J-B – KSC PROJECT SPECIFIC REQUIREMENTS**

- (c) Confined spaces, which contain water, shall be pumped out by the contractor prior to scheduling a confined space entry check.
- (d) In addition to the requirements set forth above, the Contractor shall notify and obtain approval from the Power Coordinator, telephone 321-867-7300, and/or from Communications Control, telephone 321-867-4141, respectively, prior to performing work in electrical and/or communications manholes.

**J-B-13            TESTING OF CONSTRUCTION MATERIALS (MAR 2014)**

Tests of construction materials indicated to be performed by the Contractor shall be accomplished by the Contractor utilizing the services of an acceptable independent testing laboratory.

**J-B-14            AFFIRMATIVE PROCUREMENT (MAR 2014)**

Affirmative Procurement (AP) is the purchase of environmentally friendly products and services (i.e. products made from recycled or recovered materials). Federal agencies, their Contractors and subcontractors are required to maximize the purchase materials on the list of “EPA Designated Guideline Items” with the minimum recycled or recovered materials content whenever practicable according to RCRA 6002 and EO 13101. The requirements of RCRA 6002 include the following:

“The decision not to procure such items shall be based on a determination that such procurement items:

- (A)    are not reasonably available within a reasonable period of time
- (B)    fail to meet the performance standards set forth in the applicable specifications or fail to meet the reasonable performance standards of the procuring agencies and/or
- (C)    are only available at an unreasonable price.

Any determination under subparagraph (B) shall be made on the basis of the guidelines of the National Institute of Standards and Technology in any case in which such material is covered by such guidelines.”

The Contractor shall provide AP approved items as specified within the contract documents. Submittals for AP items shall be provided for approval in accordance with Shop Drawing provisions. If the Contractor proposes to substitute an item that does not conform with AP requirements, the applicable Shop Drawing shall be accompanied by KSC Form 8-69, Contractor Request to Use Nonconforming Parts or Material (*Deviation/Waiver Request*) identifying the reason for the proposed substitution.

Non-conforming items without approved D/W’s will be rejected and the contractor shall be responsible for any costs and schedule impacts associated with replacing such non-conforming

**NASA/KSC SOLICITATION NNK15530485R**  
**ATTACHMENT J-B – KSC PROJECT SPECIFIC REQUIREMENTS**

items at no additional cost to the Government.

At the conclusion of the project, the Contractor shall provide the Contracting Officer (CO) with a report itemizing all AP items used.

Detailed information on the EPA AP specified/approved products and manufacturers providing these products is available at [www.epa.gov/cpg/products.htm](http://www.epa.gov/cpg/products.htm).

**J-B-15            SPILLS (MAR 2014)**

The Contractor shall make all reasonable and safe efforts to contain and control any spills or releases that may occur. The Contractor shall immediately report (by phone) any occurrence of a pollution incident or spill, first to the Emergency 911 (321-867-7911 from a non 867/861 exchange), then to the Contracting Officer (CO). The Contractor shall document the incident or spill on KSC Form 21-555, "Pollution Incident Report," and submit it to the CO and NASA Environmental Assurance Branch (EAB), TA-B1B, within 24 hours of the incident.

The Contractor shall provide spill response materials to contain and control spills including, but not limited to, containers, absorbent material, shovels, and personal protective equipment. Spill response materials shall be available at all times in which materials/wastes are being handled or transported. Spill response materials shall be compatible with the type of material being handled.

The KSC Spill Cleanup Team will be responsible for the final cleanup and validation of a spill or release.

The Contractor's prompt action to minimize the impacted area and to timely report any occurrence will increase the Spill Cleanup Team's ability to complete the spill cleanup and therefore reduce the Contractor's liability for a larger cleanup.

**J-B-16            WEEKLY STATUS MEETING (MAR 2014)**

The Contractor shall attend a weekly progress/status meeting to be scheduled by the Contracting Officer for the purpose of determining progress status, delaying factors, material delivery schedules, and status of shop drawing submittals. In addition, a representative of each first tier subcontractor may be required to be present for the conference.

**J-B-17            SUPERINTENDENT ASSIGNMENT (OCT 2014)**

Working Superintendent: Pursuant to FAR clause 52.236-6, entitled "Superintendence by the Contractor," the Contractor shall assign a superintendent, on the Contractor's payroll, whose primary responsibility will be to superintend the work and who has the authority to act for the Contractor. One or more alternate superintendents, each with full authority to supervise the work, shall be designated in writing and approved by the Contracting Officer. The superintendent or an alternate shall be physically present at each work site at all times during performance of the contract and until the work is completed and accepted.

**NASA/KSC SOLICITATION NNK15530485R**  
**ATTACHMENT J-B – KSC PROJECT SPECIFIC REQUIREMENTS**

The individual(s) appointed as superintendent(s) shall complete the OSHA 10 hour Construction Course prior to starting any field work on the project. The class shall be taught by an authorized provider of the course (e.g., United Safety Council, Florida Safety Council) and be attended in person. The appointed superintendent(s) shall provide the course completion certificate to the government stating the required training and testing was satisfactorily completed and the date of completion. The course completion date shall not be greater than 5 years from the start of the contract.

**J-B-18 MATERIAL SAFETY DATA SHEETS (MSDS) SUBMITTAL/CHEMICAL INVENTORY REPORTING AND MANAGEMENT (MAR 2014)**

The Contractor shall provide a complete and accurate list, accompanied by the applicable Material Safety Data Sheets (MSDS), of all materials and chemicals listed on the Consolidated List of Chemicals Subject to the Emergency Planning and Community Right-To-Know Act (EPCRA) and Section 112(r) of the Clean Air Act that will be stored onsite and/or used in the execution of this contract, regardless of the quantity. This information shall be provided to the Contracting Officer (CO) prior to the time of delivery of the materials and chemicals to the site. This inventory is to be updated and resubmitted to the CO on a monthly basis. All inventory reporting is to be completed on the Chemical Inventory for Construction Projects at Kennedy Space Center Form (8-313NS). Appropriate labels and MSDS shall be provided for all chemical shipments.

**J-B-19 WASTE CHARACTERIZATION (MAR 2014)**

KSC Form 26-551 "Process Waste Questionnaire" (PWQ) shall be prepared and processed for all waste streams generated during the execution of this project in accordance with article entitled "**Hazardous Wastes**".

**J-B-20 PERMIT REQUIREMENTS (MAR 2014)**

No on-site work will be allowed until the appropriate State and Federal issuing agencies issue all required permits. The government is responsible for obtaining and providing all required permits except as specified below. Permits required may include, but are not limited to, air construction, dewatering, borrow pit, potable water, sanitary sewer, stormwater, National Pollutant Discharge Elimination System (NPDES) and wetlands. The following permits are known to be required for this project:

**None**

The Contractor is responsible for obtaining the following permits, if required, before beginning work on the subject systems:

- FDEP/Brevard County Onsite Sewage Treatment and Disposal System Construction/Permit Abandonment

**NASA/KSC SOLICITATION NNK15530485R**  
**ATTACHMENT J-B – KSC PROJECT SPECIFIC REQUIREMENTS**

- FDEP/Brevard County Well Construction/Abandonment Permit.

The Contractor shall comply with the terms and conditions of these permits. The Contractor shall provide copies of these permits as well as copies of all documentation submitted as part of the application process to the NASA Environmental Assurance Branch (EAB), TA-B1B through the Contracting Officer (CO) as delineated in contract documents or as directed by the CO.

The Contractor shall not begin construction before receiving all Federal, State, and local construction permits as indicated in this section. Included in adherence thereto is compliance with all conditions of the permit as well as requirements given in the laws, ordinances, and regulations. The Contractor shall be responsible for payment of any fines from government agencies resulting from the Contractor's failure to adhere to all identified permit conditions and agency regulations. These shall include, but are not limited to, material and construction standards, environmental protection, certifications, notifications, and monitoring requirements.

Upon issuance of the Notice to Proceed, the CO shall make copies of all Government provided permits with conditions related thereto available to the Contractor. The Contractor shall keep copies of the permits and related materials such as drawings.

**J-B-21          HAND EXCAVATION (MAR 2014)**

Due to numerous existing underground utilities, all excavation in the areas listed below will be dug carefully, using hand tools ONLY. Contractor shall hand dig a pilot trench to locate existing utilities before motorized equipment is used in the areas listed below. Excavation in areas within 5 feet of all existing utilities shall be by hand.

<b>Drawing</b>	<b>Sheet</b>	<b>Zone</b>
CLIN-0001 Base Bid 1, Drawing 79K39768 (All excavation within the C5 Substation and at new switching equipment and directional bore conduit transitions)	E-111	All
	E-112	All
	E-401	All
	E-402	C / 4
	E-403	D-E / 6-7, D-E / 3-4
	E-404	E-F / 4
	E-405	D-E / 3-5
	E-406	E-F / 3-5
	E-407	D-E / 3-5
	E-408	C-D / 4-5
	E-409	C-D / 3-5
CLIN-0001 Base Bid 1, Drawing 79K39770 (All excavation within the C5 Substation)	E-401	All
	E-402	All
	E-403	All



**NASA/KSC SOLICITATION NNK15530485R**  
**ATTACHMENT J-B – KSC PROJECT SPECIFIC REQUIREMENTS**

CLIN-0003 Option 2, Drawing 79K39767 (All excavation within the C5 and Orsino Substations)	E-402	C-D / 2-7
	E-403	C-D / 5-6
	E-404	C-D / 5-6
	E-405	C-D / 5-6
	E-411	C-F / 4-6
	E-412	C-F / 4-6
	E-413	C-F / 4-6
	E-421	F / 4
	E-422	D-E / 2
	E-423	B / 4
	E-424	D-E / 2-3
	E-425	G-H / 7, G-H / 2
	E-426	C-E / 5-7
	E-432	G-H / 1-8

**J-B-22      ABRASIVE BLASTING AND PAINTING (MAR 2014)**

To the maximum extent possible, abrasive blasting and painting shall be performed before materials are delivered to KSC. A National Association of Corrosion Engineers (NACE) inspection report shall be provided to the Contracting Officer (CO) one (1) week prior to delivery of hardware painted offsite. Where field operations at KSC/CCAFS are required by contract documentation, the Contractor shall perform the operations in accordance with the following:

**ABRASIVE BLASTING**

Operations for paint/coating removal or other corrosion control activities involving the use of abrasive blasting to prepare surfaces shall not be allowed to contaminate soil or surface waters. To ensure this, the Contractor shall do the following:

- a. Provide tarpaulin drop cloths, windscreens, and other means necessary to enclose abrasive blasting operations to confine and collect dust, abrasive, agent, paint chips, and other debris.
- b. Collect, sample and dispose of in accordance with “disposal” paragraph all material removed and/or generated, including coating materials and blast media.
- c. Protect storage areas for blast media and blast debris from the natural elements to prevent contamination.

**EXTERIOR PAINTING**

When painting exterior surfaces, the Contractor shall implement measures in the paint application process to minimize the amount of overspray that is created on a project. Drop cloths or similar containment shall be used to prevent paint from coating ground surfaces.

**NASA/KSC SOLICITATION NNK15530485R**  
**ATTACHMENT J-B – KSC PROJECT SPECIFIC REQUIREMENTS**

The Contractor shall implement measures to contain any overspray that may be generated as a result of a painting operation. The Contractor shall also implement measures to prevent rainfall and runoff from contacting items such as painting supplies, paint equipment, empty paint cans, etc., which may have paint residue in or on them.

The contractor shall take precautions to protect all Government hardware from contamination or damage during sandblasting and painting operations. The Contracting Officer or representative shall approve the method of protection. The contractor shall be responsible for any and all claims arising from painting or overspray or overblasting. In addition, the contractor shall be responsible for any repairs to damaged property, and for the collection, removal and disposal of the oversprayed or overblasted materials. The Government will make no additional payments for overspraying or overblasting by the Contractor.

**USE OF WATER – WATER BLASTING**

The process of preparing certain surfaces, mainly the exteriors of buildings and structures, before the application of surface coatings may incorporate the use of water. These preparation activities include, but are not limited to removing dirt, mold, and mildew before painting (general surface cleaning); using pressurized water to remove coatings (water blasting); and using blast media to remove paint/coatings along with water as a dust inhibitor (wet blasting).

Operations using water shall be performed with either plain potable water or potable water with biodegradable, phosphate-free detergents and/or low concentration ( $\leq 5\%$ ) sodium hypochlorite (bleach), calcium hypochlorite, or hydrogen peroxide.

All material removed and/or generated, including coating materials, water, and blast media, shall be collected for proper disposal. All material removed during water blasting operations will be collected, sampled, and disposed of in accordance with the “disposal” paragraph below. Liquids may be separated from the solid debris by screening the material collected with a 40-micron (or finer) filter mesh.

**COATINGS CONTAINING HAZARDOUS CONSTITUENTS**

The Contractor shall handle and disposed of all waste containing any hazardous materials in accordance with article entitled “Hazardous Wastes.”

**DISPOSAL**

The Contractor shall dispose of all waste containing nonhazardous materials in accordance with article entitled “Landfill Operations/Solid Waste Removal.”

**INSPECTION**

All abrasive blasting and painting shall be inspected by a Contractor provided NACE inspector to verify compliance with the contract documentation. The inspector’s reports shall be provided to

**NASA/KSC SOLICITATION NNK15530485R**  
**ATTACHMENT J-B – KSC PROJECT SPECIFIC REQUIREMENTS**

the Contracting Officer at the end of each week in which the blasting and/or painting has been performed at KSC. The report shall include information that clearly defines the extent (starting and end points) of work performed during each week.

**J-B-23        GOVERNMENT PROPERTY TO BE INSTALLED BY THE CONTRACTOR (MAR 2014)**

In Association with the work to be performed under this contract, the Government will provide the property identified below to be installed by the Contractor. **Equipment is currently in use and will be turned over to the contractor during an approved outage to re-install the equipment.**

Description	Quantity	Estimated Value	Condition
Neutral Grounding Resistor	6	\$13,500 Each	Good

**J-B-24        TRAFFIC CONTROL REQUIREMENTS (MAR 2014)**

(a) Standards:

U.S. Department of Transportation Federal Highway Administration Manual (latest edition), on uniform Traffic Control Devices for Streets and Highways, Part II, Signs for Traffic Controls for Street and Highway Construction, Maintenance, Utility and Emergency Operations, set forth the basic principles and prescribes minimum standards to be followed in the design, application, installation, maintenance and removal of all traffic control devices and all warning devices and barriers which are necessary to protect the public and workmen from hazards within the project limits. The standards established in the aforementioned manual constitute the requirements for normal conditions, and additional control devices, warning devices, barriers or other safety devices will be required where unusual, complex or particularly hazardous conditions exist.

(b) Traffic Control Devices, Warning Devices and Barriers:

- (1) The responsibility for installation and maintenance of adequate traffic control devices, warning devices, and barriers, for the protection of the traveling public and workman, as well as to safeguard the work area in general shall rest with the contractor. The required traffic control devices, warning devices and barriers shall be erected by the Contractor prior to creation of any hazardous condition and in conjunction with any necessary rerouting of traffic. The Contractor shall immediately remove, turn, or cover any devices or barriers which do not apply to the existing conditions.
- (2) The Contractor shall make the Contracting Officer aware of any scheduled operation which will affect traffic patterns or safety, sufficiently in advance of commencing such operation to permit his review of the plan for installation of traffic control devices, warning devices, or barriers proposed by the contractor.
- (3) The Contractor shall assign one of his employees the responsibility of maintaining the

**NASA/KSC SOLICITATION NNK15530485R**  
**ATTACHMENT J-B – KSC PROJECT SPECIFIC REQUIREMENTS**

position and condition of all traffic control devices, warning devices, and barriers through the duration of the contract. The Contracting Officer shall be kept advised at all times as to the identification and means of contacting this employee on a 24 hour basis.

- (4) Maintenance of Devices and Barriers: Traffic Control devices, warning devices, and barriers shall be kept in the correct position, properly directed, clearly visible and clean, at all times. Damaged, defaced, or dirty devices or barriers shall immediately be repaired, replaced, or cleaned as required per the request of the Contracting Officer.

(c) Flagmen:

The Contractor shall provide competent flagmen to direct traffic in situations as may be required by the standards established in the paragraph above.

(d) Traffic Control Plan:

- (1) After contract award but prior to Notice to Proceed, the Contractor shall submit a traffic control plan to the Contracting Officer for approval. No work will be allowed on bridges or right-of-way of roads between the hours of 6:00 AM to 8:00 AM and 3:00 PM to 5:00 PM.
- (2) The Contractor may request work time during off shift and weekends in order to meet construction schedules.
- (3) The Traffic Control Plan will be updated by the Contractor on a weekly basis in order to provide a current plan for the job and make adjustments to the Contractor's work. The updated Traffic Control Plan shall be presented at the Weekly Status Meeting.

(e) Traffic Flow Requirements:

The Contractor shall keep one lane open at all times during road modifications. Any trench or hole created in a roadway shall be backfilled to finish roadway elevation or effectively covered to support vehicle loads prior to allowing any traffic to flow over it. No roads will be blocked during peak hours of traffic; no road work shall start before 8:00 am or continue past 5:00 pm, Monday through Friday unless otherwise approved by the Contracting Officer.

**J-B-25      ORANGEBURG DUCTWORK (MAR 2014)**

The Contractor shall containerize and dispose of any solid debris generated from mechanical cleaning or boring of Orangeburg pipe or removal of duct per the requirements of the Process Waste Questionnaire (PWQ), KSC Form 26-551 and the Technical Response Package (TRP) in accordance with article entitled "Hazardous Waste". The Contractor shall containerize and dispose of any water used to rinse Orangeburg ductwork after cleanout in accordance with the PWQ/TRP. Manholes must be free of solid debris before dewatering effluent may be allowed to discharge by

**NASA/KSC SOLICITATION NNK15530485R**  
**ATTACHMENT J-B – KSC PROJECT SPECIFIC REQUIREMENTS**

land application.

**J-B-26          STORMWATER POLLUTION PREVENTION (AUG 2014)**

The contractor shall prepare and submit a Notice of Intent (NOI) to the Florida Department of Environmental Protection, and pay required permit fees, under the State of Florida's National Pollutant Discharge Elimination System (NPDES) permit for all activities that disturb greater than one (>1) acre of land. The Contractor shall submit this NOI to be covered under the NPDES "Generic Permit for Stormwater Discharge from Large and Small Construction Activities". The NOI requires that the Contractor have a Stormwater Pollution Prevention Plan prepared and on-site. The pollution prevention measures selected and maintained by the Contractor shall be such that water quality standards are not violated as a result of the Contractor's construction activities, and shall comply with any erosion control requirements provided in the plans and specifications. All pollution prevention measures shall be in accordance with the NPDES permit and the Environmental Resources Permit specific to this project. The Contractor shall conduct and document inspections of the project area as required by the permits. The Contractor shall provide to the government a copy of the submitted NOI at least 2 days prior to the start of any earthwork or land clearing activities. The Contractor shall provide to the government, at the end of the project, copies of NOI, the FDEP Acknowledgement letter, the inspection reports, the Notice of Termination (NOT), and the FDEP Final Closure letter.

A NOI is not required for activities that disturb less than or equal to one (<1) acre of land; however, the Contractor shall implement erosion and sediment control best management practices (BMPs) as necessary to minimize environmental damage and maintain compliance with regulatory requirements, and shall comply with any erosion control requirements provided in the plans and specifications.

**J-B-27          CONCRETE WASTEWATER (MAR 2014)**

The following checked paragraphs are applicable to this acquisition:

☒          CONCRETE WASHOUT

The Contractor shall not allow wastewater from standard concrete construction activities (such as on-site material processing, concrete curing, foundation and concrete clean-up, water used in concrete trucks, forms, directional drilling, etc.) to enter waterways or to be discharged before being treated to remove pollutants.

The Contractor shall dispose of the construction-related concrete wastewater and concrete excess by collecting and placing it in a contractor constructed settling pond where suspended material can be settled out and/or the water can evaporate to separate solids from the water. The location of the settling pond shall be coordinated with and approved by the Contracting Officer (CO). The Contractor shall remove and dispose of the residue left in the pond and restore site to original condition. Disposal of solidified concrete shall be performed in accordance with the

**NASA/KSC SOLICITATION NNK15530485R**  
**ATTACHMENT J-B – KSC PROJECT SPECIFIC REQUIREMENTS**

solid waste article.

**J-B-28            TOXIC METALS (MAR 2014)**

Representative samples of painted surfaces within the project area have been identified to contain toxic metals. The Contractor shall assess hazards and brief government of their proposed methods of removal and disposal of building materials identified as having toxic coatings and hazardous materials. The Contractor's hazard assessment shall be conducted by a competent health and safety professional. The Contractor shall notify the Contracting Officer of hazard mitigation activities and abatement procedures 14 days prior to disruption to any suspected area.

**J-B-29            PCB MANAGEMENT (MAR 2014)**

Polychlorinated Biphenyls (PCB) wastes may include, but are not limited to, oil-filled transformers, Oil-contaminated transformer concrete pads, light ballasts, capacitors, electric motors, pumps and paint coatings. PCB wastes shall be managed in accordance with 40 CFR 761. PCB waste management and disposal shall be coordinated through the Contracting Officer (CO), a KSC Form 26-551 "Process Waste Questionnaire" (PWQ) and Technical Response Package (TRP) shall be prepared and processed in accordance with article entitled "**Hazardous Wastes**".

**Government Assistance** – KSC has established procedures for the handling, storage and disposal of PCB contaminated waste streams generated on the Center. To aide with proper compliance of site-specific requirements, the Government will assign a NASA Environmental Point of Contact (EPOC) for each project. The establishment of the NASA provided EPOC in no way relieves the contractor for compliance with requirements defined in 40 CFR 761.

**LIQUIDS CONTAMINATED WITH PCBs**

PCB containers storing liquid PCBs at concentrations of 50 parts per million (ppm) or greater shall be removed from the generator accumulation site within **24 hours** from the date the PCB item was removed from service. This support shall be coordinated through the Contracting Officer for waste pickup scheduling **before** removal from service. The Contractor shall contact the Contracting Officer for pick-up and removal of all PCB related waste. The Contractor shall not remove any oil filled transformers from KSC. Unless analysis results determine PCB content in oil less than 2 ppm, the contractor shall coordinate any disposal of liquid PCBs through the Contracting officer.

**For Equipment containing PCB concentration in OIL >= 500 ppm**

**LIQUIDS:** Drained oil must be stored in a DOT approved container and marked with a PCB label (with the date the equipment was removed from service). Containerized liquid PCB waste must be moved to PCB storage facility **immediately (within 24 hrs)**.

Coordinate effort through EPOC - 5 day notice prior to removal from service is required.

**CARCASS or CONTAINER:** Drained equipment must be marked with a PCB label (with

**NASA/KSC SOLICITATION NNK15530485R**  
**ATTACHMENT J-B – KSC PROJECT SPECIFIC REQUIREMENTS**

the date the equipment was removed from service), stored on an impervious surface, covered from rain, and moved offsite within 30 calendar days.

**For Equipment containing PCB concentration in OIL >50 ppm but < 500 ppm**

**LIQUIDS:** Drained oil must be stored in an adequate container on an impervious surface, covered from rain, labeled, and moved offsite within 14 calendar days.

**CARCASS or CONTAINER:** Drained equipment must be stored on an impervious surface, covered from rain, labeled with PCB mark, dated and moved offsite as soon as practicable (not to exceed 180 days). If carcass paint is analyzed for PCBs and results < 50 ppm - No storage, marking, or dating requirement are required under TSCA regulations. Provide analysis results to RRMF along with KSC 7-49 form to recycle.

**PCB BULK PRODUCT WASTE (SOLIDS)**

*PCB Bulk Product Waste* is defined in 40 CFR 761.3 as waste derived from manufactured products containing PCBs in a non-liquid state at any concentration, where the concentration of PCBs at the time of designation for disposal is greater than or equal to ( $\geq$ ) 50 ppm. The contractor shall dispose of all coated waste with a PCB concentration over the 50 ppm limit in the Schwartz Road landfill (see Schwartz Road Landfill Article). NASA requires all contractors generating metal-based waste containing PCB contaminated coatings with PCBs  $\leq$  50 ppm to recycle this material (see Recycling and Salvaging Article). If these materials cannot be recycled due to excessive cost in segregation or handling, the contractor shall dispose of this waste in the same manner as PCB Bulk Product Waste.

All protective coatings that contain PCB shall be handled in accordance with the requirements of this section. Where Material Safety Data Sheets for protective coatings are available and indicate the presence of PCBs, sampling is not required. Where the presence of PCBs is not determined before work begins, PCBs shall be assumed to be present.

The following waste generator standards will be used for the accumulation and storage of PCB waste materials:

- a. PCB wastes listed below may be stored temporarily at a waste generator accumulation site for up to thirty (30) days from the date removed from service. The container and labeling shall comply with the TRP. The date the PCB item was removed from service shall be marked on the container label per the TRP.
  - (1) Non-leaking articles and equipment. PCB articles are manufactured articles containing PCBs whose surfaces have been in direct contact with PCBs. These articles include capacitors, transformers, electric motors, and pumps.
  - (2) Leaking articles and equipment placed in non-leaking PCB containers with sufficient materials to absorb any liquid PCBs remaining in the item. PCB

**NASA/KSC SOLICITATION NNK15530485R**  
**ATTACHMENT J-B – KSC PROJECT SPECIFIC REQUIREMENTS**

containers are any devices used to contain PCBs or PCB articles whose surfaces have been in direct contact with PCBs.

- (3) PCB containers storing non-liquid PCB wastes such as contaminated soil and debris.
- b. PCB containers storing liquid PCBs at concentrations of 50 parts per million (ppm) or greater shall be removed from the generator accumulation site to the PCB Storage Building (K7-115) within 24 hours from the date the PCB item was removed from service. Support shall be coordinated through designated KSC Waste Management personnel for waste pickup before removal from service date to allow for waste pickup scheduling and to avoid regulatory violations. The Contractor shall contact KSC Waste Management for pick-up and removal of hazardous/PCB waste. Documentation including the waste type, quantity, locations, and organization responsible for the waste shall be provided on KSC Form 28-809 “Waste Support Request” to KSC Waste Management when requesting waste disposal. The Contractor shall fax the waste support request to KSC Waste Management at fax 867-9466.

The Contractor shall not remove any oil filled transformers from KSC. The Contractor shall only take drained transformers to the Reutilization, Recycling and Marketing Facility (RRMF) (M6-1671) at Ransom Road. Within the six (6) month period prior to delivery to RRMF, transformers shall have an oil analysis showing PCB content. At the request of the Contractor, the CO will arrange for all sampling and testing to determine the proper handling and disposal of the transformers. If the oil sample is greater than 500 ppm, the transformer shall be removed as a hazardous/PCB waste. Within 48 hours of having the transformer ready for disposal, the Contractor shall contact the EPOC assigned to the project to coordinate with KSC Waste Management for pick-up and removal of hazardous/PCB waste. Documentation including the waste type, quantity, locations, and organization responsible for the waste shall be provided on KSC Form 28-809 “Waste Support Request” to KSC Waste Management when requesting waste disposal. The EPOC shall fax the waste support request to KSC Waste Management at fax 867-9466. At the request of the Contractor, the EPOC will arrange for all sampling and testing to determine the proper handling and disposal of the stained or painted concrete. Lab analysis that is older than 6 months will not be considered valid analysis and re-sampling must be completed.

**J-B-30      HAZARDOUS WASTES (MAR 2014)**

Hazardous and controlled waste shall be managed in accordance with all applicable statutes, rules, orders, and regulations which may include but are not limited to 40 CFR Parts 260 - 268, 273, 279, 761 and KNPR 8500.1 KSC Environmental Requirements. All hazardous waste generated during the execution of this contract shall be disposed of by the Government. Unless directed by the Contracting officer, in no case shall the Contractor or the Contractor’s representative transport hazardous waste from KSC.

The Contractor shall be responsible for identifying processes and operations and the location and nature of all potentially hazardous and controlled waste and their containers, as defined in 40 CFR



**NASA/KSC SOLICITATION NNK15530485R**  
**ATTACHMENT J-B – KSC PROJECT SPECIFIC REQUIREMENTS**

Parts 261, 273, 279, or 761. KSC has established policies and procedures in place to assist the contractor for characterization, handling and storage of wastes generated on KSC. Any request for assistance shall be in writing and submitted to the Contracting officer.

Contractor personnel generating and managing the waste shall have hazardous waste training per 40 CFR 265.16. The Contracting Officer may at any time during the course of the contract performance period require the Contractor to provide individual training records for any employee involved in the performance of this contract, and the contents of the course or courses completed to satisfy the training requirements. Attendance at KSC Training Course QG-211 "Hazardous Waste Management" will satisfy the above training requirements.

The Contractor shall prepare copies of Material Safety Data Sheets (MSDS) for each material utilized on the project and provide copies to the Contracting Officer (CO) thirty (30) days before the start of the waste generation process. No substances shall be delivered to KSC without the appropriate Material Safety Data Sheets.

**GOVERNMENT ASSISTANCE**

KSC has established procedures for the handling, storage and disposal of hazardous waste. To aide with proper compliance of site-specific requirements, the Government will assign a NASA Environmental Point of Contact (EPOC) for each project. The EPOC shall, upon request, assist with waste hazard determination, packaging, labeling, and disposal requirements for waste generated on KSC. The establishment of the NASA EPOC in no way relieves the contractor for compliance with requirements defined in 40 CFR Parts 261, 273, 279, or 761.

**WASTE CONTAINERS**

The Government will provide DOT compliant storage containers and labels upon request. The Contractor shall request the storage containers, by providing quantity and type needed, in writing to the Contracting Officer a minimum of one week before the required need date. The containers will be available for pickup by the Contractor at a location designated by the Contracting Officer. For projects that will be generating large quantities of waste (>500 gallon or 75 cu ft), a two week notice must be provided to the CO to ensure availability of waste containers. The Contractor shall be responsible for transporting the containers from storage location to the project site.

**SATELLITE WASTE ACCUMULATION AREA (SAA)**

The Contractor shall establish an on-site Satellite Waste Accumulation Area within 50 feet (ft) of and within sight of any point where hazardous or controlled wastes may be generated. If a Satellite Waste Accumulation Area must be more than 50 ft from the point of generation, or out of sight of the generator, the Contractor shall provide a written request to the CO fourteen (14) days before the start of the waste generating process. The CO will

**NASA/KSC SOLICITATION NNK15530485R**  
**ATTACHMENT J-B – KSC PROJECT SPECIFIC REQUIREMENTS**

send a notification to the NASA Environmental Assurance Branch (EAB), TA-B1B, for their review and concurrence. The EAB will then request approval for a non-routine Satellite Waste Accumulation Area from Florida Department of Environmental Protection. The Contractor shall not place the Satellite Waste Accumulation Area in service before receiving written approval of the variance from the CO. The Contractor shall store potential or identified hazardous and/or controlled wastes in the appropriate properly labeled containers inside the Satellite Waste Accumulation Area in accordance with KNPR 8500.1 (as revised).

**UNKNOWN WASTES**

If during the course of the project unidentified waste is discovered by the contractor or subcontractors, the contractor shall immediately contact the Contracting Officer and handle the waste as hazardous. The contractor shall not attempt to move, open or test any unknown commodities.

If a hazardous/nonhazardous waste determination cannot be made by process knowledge and no MSDS is available for the waste stream, the container of waste shall be marked with a Hazardous Waste Determination In Progress (HWDIP) label until chemical analysis is completed. At the request of the Contractor, the CO and EPOC will provide any analytical support required by the TRP. The EPOC will arrange for all sampling and testing of potentially hazardous or controlled waste.

If the material is hazardous, the analysis completion date serves as the accumulation start date (ASD). Waste streams labeled with HWDIP labels are a potentially hazardous waste stream; therefore they must be managed as a hazardous waste. In order to fulfill this requirement, the generator shall manage those containers in a Satellite Waste Accumulation Area or 90-day storage area. HWDIP waste generated in amounts less than 55 gallons may be managed as a satellite container. If HWDIP waste is generated in amounts greater than 55 gallons, the additional volume must be moved within 72 hours to a 90-day storage site.

**UNIVERSAL WASTES (UW)**

For items meeting the definition of UW, the Contractor shall handle, collect and manage in accordance with 40 CFR 273 and Chapters 62-730 and 62-737 FAC. The EPA established Universal Waste regulations to ease the requirements for managing hazardous wastes that can be recycled. Waste streams currently adopted by the State for management as UW are rechargeable batteries, mercury-containing lamps and devices, capacitors, and certain pesticides.

The Contractor's representative or "Handler" of UW shall be trained for the proper waste handling and emergency response procedures. Attendance at the KSC training course QG-299 "Universal Waste Rule" will satisfy the above. The Contractor shall provide to the CO training records of any "handler" of UW upon request of the CO.

**NASA/KSC SOLICITATION NNK15530485R**  
**ATTACHMENT J-B – KSC PROJECT SPECIFIC REQUIREMENTS**

**J-B-31            USED OIL MANAGEMENT (MAR 2014)**

Any lubricant that has been refined from crude oil (or synthetic oil) that has been "used," and as a result of such use is contaminated by physical or chemical impurities, shall be considered Used Oil. Used oil, including hydraulic fluid, shall be managed according to regulations established in 40 CFR 279, Chapter 62-710, FAC and NASA Procedural Document KNPR 8500.1.

**J-B-32            RECYCLING AND SALVAGING MATERIALS (MAR 2014)**

The Contractor shall divert all of the following Construction and Demolition (C&D) waste items from the list below from disposal at landfills and incinerators to facilitate their recycling or reuse. The Contractor shall require all subcontractors, vendors, and suppliers to participate in this effort.

**GOVERNMENT PROPERTY**

All items or materials designated below to be salvaged shall remain the property of the Government and will be cleaned of non-salvable debris, segregated, itemized, delivered, and off-loaded by the Contractor at the disposal area. Scrap metal will be treated as salvage. The Contractor shall maintain adequate property control records for all materials or equipment specified by the contract to be salvaged. These records may be in accordance with the Contractor's system of property control if approved by the CO. The Contractor shall be responsible for adequate storage and protection of salvaged materials and equipment pending delivery to the disposal area. All materials and real property items identified below shall remain property of the Government unless excluded by the contracting documents. The contractor shall utilize on-site recycling and salvaging procedures for the following checked items:



**CONCRETE**

Concrete waste must be taken to the Diverted Aggregate Recycling and Collection Yard (DARCY) located at Schwartz Road Landfill. Follow the guidelines in the KSC DARCY Management Plan, which will be provided to the Contractor at the Pre-Work Conference.



**ASPHALT, LAND CLEARING DEBRIS, DIMENSIONAL LUMBER  
(NON-PRESSURE TREATED), WOODEN PALLETS, BLAST MEDIA  
(NON-CONTAMINATED)**

Asphalt, Non-contaminated blast media, Non-pressure treated and unpainted wood, lumber, plywood, green waste and land clearing debris from C&D operations must be taken to the Schwartz Road Landfill. Instructions on where to stockpile these items in the landfill will be given by personnel located inside the scale house at the entrance to the landfill.

**NASA/KSC SOLICITATION NNK15530485R**  
**ATTACHMENT J-B – KSC PROJECT SPECIFIC REQUIREMENTS**

**CONTRACTOR PROPERTY**

All materials and real property items checked below shall become property of the contractor at the NTP. The Contractor may, at his discretion, assume ownership of and recycle all other Construction and Demolition Debris that has not been identified for salvage in the Contract Documents, or has otherwise been designated as Government property. All recyclable material obtained by the Contractor for recycling shall be removed from the Kennedy Space Center and recycled; it shall not be stockpiled at the Kennedy Space Center. The Contractor shall assume ownership of these recyclable materials once they are transported off of the Kennedy Space Center.



**ELECTRICAL, OFFICE, AND OTHER EQUIPMENT**

These items require inspection by RRMF/Environmental Management Branch recycling personnel to provide proper disposition of material. Electrical equipment (transformers / switchgear / panels / disconnects.....) disposition will be made on a case by case basis based on level of contamination and value.



**METALS: ALUMINUM, BRASS, COPPER, REBAR, STAINLESS STEEL, STEEL, OTHER FERROUS, OTHER NON-FERROUS, SCRAP METAL**

All metals coated with non-liquid PCB paints with levels below 50 parts per million shall be recycled by the contractor. Any metals coated with non-liquid PCB paints with levels above 50 ppm shall utilize the Schwartz Road Landfill after Government approval.

**REPORTING REQUIREMENT**

The Contractor shall record C&D waste materials on the “Construction & Demolition Projects Report“, KSC Form 7-648 NS (02/07) and submit the form on a monthly basis and keep log on site per direction of the Contracting Officer (CO).

**J-B-33      SOLID WASTE (MAR 2014)**

The Contractor shall be responsible for the proper management of all solid waste generated at the Kennedy Space Center from the execution of this contract. The Contractor shall segregate and transport all solid waste to disposal locations designated in the Contract Documents. The Contractor shall police work areas daily for loose trash and debris. The Contractor shall collect and properly dispose of wind-blown debris daily to prevent migration of debris/trash offsite.

Trash items not requiring special handling, or which cannot be resold or recycled, shall be disposed of in receptacles slated for disposal in either the KSC Landfill or the Brevard County Landfill. The Kennedy Space Center has numerous policies and processes in place to properly categorize, handle, store and dispose of waste streams generated during the project. It is the contractor’s responsibility to make every effort to reduce the impact of the project on the environment. This includes utilizing

**NASA/KSC SOLICITATION NNK15530485R**  
**ATTACHMENT J-B – KSC PROJECT SPECIFIC REQUIREMENTS**

all practical means to reduce the amount of waste that is landfilled or incinerated.

**J-B-34            DIVERTED SOLID WASTE (MAR 2014)**

The Contractor shall dispose of the following solid wastes at onsite KSC disposal facilities: Soils, Trees / tree remains, Vegetative material, Non-pressure treated wood, Dimensional non-pressure treated lumber, Pallets (Unserviceable Wood), Blast Media (non-hazardous), and **clean non-coated concrete**. The contractor shall segregate clean, unpainted concrete from other Construction and Demolition Debris and deliver it to the Kennedy Space Center's Diverted Aggregate Recycling and Collection Yard (DARCY). The DARCY is located west of the Schwartz Road Landfill entrance. The Government shall retain ownership of all material delivered to the DARCY. EPOC shall provide DARCY operating plan upon request.

**J-B-35            SCHWARTZ ROAD LANDFILL OPERATIONS (MAR 2014)**

The KSC Landfill is an unlined Class III landfill. Any waste permitted by DEP regulations for disposal in a Class III landfill as defined in Rule 62-701.200(14), FAC can be accepted at the landfill (**excluding friable asbestos**). For the purpose of meeting recycling, waste diversion and reuse goals, KSC has restricted certain solid waste from landfill disposal (See **Article J-B-32, Recycling and Salvaging Materials**) Landfilling of waste shall be the Contractor's last option for disposal.

The physical dimensions of the waste shall be within the handling capabilities of the landfill disposal equipment. The physical dimensions for the landfill handling capabilities are 8 feet in length x 8 feet in width. Only the following items listed will be accepted at the landfill:

- (1)     Asphalt: Asphalt removed from parking lots, driveways, and roadways.
- (2)     Blast Media: The blast media must be as free from debris as possible and determined nonhazardous for acceptance into the KSC Landfill. The Spent Sandblast Media Disposal Form must accompany the blast media to the landfill and will be reviewed by the landfill operator. Blasting media determined to be a hazardous waste must be managed as hazardous waste.
- (3)     Carpeting
- (4)     Construction and Demolition Debris: Materials considered not water soluble and non-hazardous in nature, including but not limited to steel, brick, glass, concrete, asphalt, pipe, gypsum wallboard and non-pressure treated or unpainted lumber. This also includes rocks, soils, tree remains and other vegetative matter, which normally result from land clearing or development. Scrap metal from demolition projects should be managed according to guidance provided under article entitled "Recycling and Salvaging Materials". The landfill may not accept any painted materials that test above the lower Toxicity Characteristic Leaching Procedure (TCLP) detection limits for barium, cadmium, chromium, lead, and mercury. If TCLP results are

**NASA/KSC SOLICITATION NNK15530485R**  
**ATTACHMENT J-B – KSC PROJECT SPECIFIC REQUIREMENTS**

above the lower TCLP detection limits, the Contractor shall submit a PWQ for evaluation per article entitled “Hazardous Wastes.”

- (5) Fiberglass
- (6) Glass (except light bulbs or lamps).
- (7) Non-Friable Asbestos: Non-friable asbestos, also referred to as Non-Regulated Asbestos Containing Materials (NRACM) is handled on a case-by-case basis. KSC policy allows for the disposal of NRACM only. In order to dispose of non-friable asbestos, the Contractor shall complete and submit the KSC/Schwartz Road Landfill Non-Friable Asbestos form (KSC 28-1084 NS), which can be obtained from the Contracting Officer (CO) or the CO’s designee. The form shall be sent to NASA EAB, TA-B1B. The following scheduling procedures shall be followed before NRACM wastes are accepted at the landfill:
  - a. The waste generator/hauler shall make arrangements with the landfill operator a minimum of 24 hours before disposal of NRACM waste and shall inform the operator of the quantity of the waste and the scheduled date the shipment will arrive at the landfill.
  - b. NRACM will be accepted at the landfill with prior arrangement with the scale house attendant (minimum of 24 hours notification) Tuesday and Thursday, excluding holidays, from 0700 hours to 1100 hours and from 1300 hours to 1500 hours.
- (8) Pallets (Unserviceable Wood and Plastics): Pallets that are not reusable or recyclable are accepted.
- (9) PCB Bulk Product Waste: Refer to Clause “PCB Management.”
- (10) Wood: Miscellaneous non-pressure treated wood items are accepted.
- (11) Yard Waste (Vegetation): Vegetation from maintenance and land clearing activities is accepted.

**J-B-36      TURBIDITY & EROSION CONTROL (MAR 2014)**

The Contractor shall prevent the discharge of sediment into drainage ditches, canals, streams, rivers or lakes due to construction operations. Precautions must be made to eliminate or reduce to the greatest extent possible any discharge of soil outside established project boundaries. Installation and maintenance of silt fences must be completed prior to initial land disturbance, and the screens must be maintained so they remain functional until such time that the newly exposed soils are stabilized with sod or natural vegetation. Approved erosion control devices shall be installed to prevent discharge of sediment into any dry or wet watercourse. Erosion control shall consist of

**NASA/KSC SOLICITATION NNK15530485R**  
**ATTACHMENT J-B – KSC PROJECT SPECIFIC REQUIREMENTS**

anchored hay bales, mulch and netting, filter cloth barriers or other erosion control methods specified within the contract documents and approved by the Contracting Officer. Stockpiled fill material shall not be stored in a manner which allows runoff into any watercourse.

**J-B-37            SITE STAGING STORAGE AND SECURITY (OCT 2014)**

It is important for the prime contractor and subcontractors to understand the objectives, issues and responsibilities regarding on-site storage staging, and security.

All vehicles should be parked in established staging or parking areas. Some construction activities may not require a staging area, but may require parking near the work site. Contractor should be cautious for safety while parking in areas within proximity of roads and at sites having extremely limited space.

Delivery of building materials and large construction equipment, such as cranes, or cement mixers or pumpers to a construction site can cause a major disruption if not planned for in advance. Deliveries should arrive before or after the normal workday traffic or on weekends. Any major deliveries should be planned with the assistance of the government appointed official, who will determine the appropriate method notification and which pertinent individuals or departments to involve. Placement of the delivered items should be coordinated as well for efficient later retrieval.

Emergency access into the site and on surrounding roadways must be maintained, so emergency vehicles may drive in and around the site at any time. Temporary detours should be properly marked and manned. Fire Lanes must remain open.

**J-B-38            LANDSCAPING AND BUILDING (MAR 2014)**

The contractor shall be responsible and bear the expense for repair and replacement of all items damaged during demolition and construction. The Contractor shall take steps to protect and prevent damage to building components, irrigation, landscaping, plants, trees, shrubbery, grasses, sidewalks, roads, vehicles, etc. during these operations. Any building components, irrigation, landscaping, plants, trees, shrubbery, grasses, sidewalks, vehicles, etc. damaged by the contractor shall be repaired/replaced to original condition by the contractor at the contractor's expense. Sidewalk sections that are damaged shall be replaced in whole from cold joint to cold joint, typically 5 feet. The Contractor shall be responsible for returning any damaged items to existing condition to the Contracting Officer's satisfaction. Repairs/replacements shall be approved by the Contracting Officer before repair work commences.

**J-B-39            INORGANIC ZINC (IOZ) PAINT WASTE MANAGEMENT (MAR 2014)**

IOZ paint must be segregated and managed as hazardous waste. Prior to generating any waste stream, the Contractor must provide all MSDS's and a description of waste generating processes to the assigned Environmental Point of Contact (EPOC) at least two (2) weeks prior to generating wastes. The EPOC will submit PWQs to the KSC Waste Management Office. The KSC Waste

**NASA/KSC SOLICITATION NNK15530485R**  
**ATTACHMENT J-B – KSC PROJECT SPECIFIC REQUIREMENTS**

Management Office will issue a TRP that lists acceptable storage container types and provides specific marking/labeling instructions. Contractor must provide a 5 psi pressure relief vent for use on all waste drums containing IOZ waste. Contractor will be provided a log for completion monthly noting amount of paint mixed, applied, and leftover generated. Provide completed log to EPOC for forwarding to KSC Waste Management Office.

**J-B-40      OCCUPANCY DURING CONSTRUCTION (MAR 2014)**

Facilities adjacent to the work site will be fully occupied during the construction. Care must be taken as to not disturb or interfere with existing Government operations or employees.

**J-B-41      PROTECTIVE BARRIERS (MAR 2014)**

Protective barriers shall be erected to protect Government personnel.

**J-B-42      POWER MANHOLE ENTRY SAFETY REQUIREMENTS (MAR 2014)**

**1.    GENERAL REQUIREMENTS**

- 1.1.**    Underground utility work practices shall be in accordance with Part 3 of the NESC and NFPA 70E; medium voltage cable cutting practices shall be as follows:

1.1.1    Medium Voltage Cable Cutting – Identification of all cables to be cut is the responsibility of the Contractor, and the Contractor is notified that documentation identifying cables within manholes is not available. Cable cutting and demolition of any medium voltage cable can occur only after approval by the Contracting Officer. The Contracting Officer shall be notified 14 calendar days prior to an outage for demolition or cutting of cables on medium voltage systems. The Government has established a mandatory inspection point prior to the Contractor performing any medium voltage cable cuts or demolition. The Contracting Officer shall be notified 48 hours in advance of this mandatory inspection point. As part of the mandatory inspection point, the medium voltage cable to be worked on shall be positively identified and labelled utilizing electronic cable identifiers. Electronic cable identifying means used shall be specifically designed to identify de-energized 15 kiloVolt class 3-conductor paper-insulated-lead-covered (1-3/C PILC) and single conductor with concentric neutral (3-1/C CN) type cable in manholes with other energized cables present and adjacent to those being identified. Electronic cable identifier shall only react to the unique pattern signal (simple pulse signal is not acceptable) transmitted by its paired device (receiver shall react only to the unique pattern signal from transmitting unit). Existing terminations and splices on both types of cables ground the lead sheath and concentric neutral of cables to be tested at multiple locations. The Site Specific Safety Plan (SSSP) shall include the electronic means to be utilized and the procedure to be used by employees identifying the cable. The process of identifying and labeling the cable to be worked on shall be witnessed by the Government and shall follow the submitted procedure. All personnel shall be outside of the manhole and five (5) feet



**NASA/KSC SOLICITATION NNK15530485R**  
**ATTACHMENT J-B – KSC PROJECT SPECIFIC REQUIREMENTS**

away from the manhole entry prior to the cable being spiked or cut. Cables shall be remotely cut or spiked.

- 1.2. Work shall be in compliance with KSC Confined Space procedures.
- 1.3. Outages shall be submitted for all manhole entries required. Possible responses to the outage request are as follows and may be different for each manhole submitted:
  - 1.3.1 A total manhole outage will be implemented and all feeder cables within a manhole will be de-energized.
  - 1.3.2 Neutral grounding resistors will be used to limit fault current on energized cables within the manhole.
  - 1.3.3 A partial manhole outage will be implemented. Some feeders within a manhole will be de-energized, but others will remain energized.
  - 1.3.4 No feeders will be de-energized and neutral grounding resistors will not be used.
- 1.4. Manhole entry is prohibited for any work or inspections unless all feeders running thru the manhole have their protective relays set to the maintenance mode.

**(NOTE:** If in doubt about what feeders run thru the manhole, the entire substation (C5, C5A or Orsino) feeder protective relays shall be put into their maintenance settings.)
- 1.5. Where the integrity of an existing feeder is suspect due to failure history, an engineering assessment shall be made and, if deemed necessary, the suspect section(s) of the cable shall be de-energized prior to entering a manhole/vault known to contain or assumed to contain the feeder cables.
- 1.6. After entering a manhole, personnel shall avoid disturbing other cables that are not being worked on.
- 1.7. No switching shall be performed on feeders with cables that run through manholes occupied by work personnel.
- 1.8. Any condition deemed unsafe shall result in a work stoppage. The manhole shall be immediately evacuated and no further entry shall occur until an engineering evaluation is performed.

**2.0 HAZARDS REVEALED BY TESTING AT A HIGH CURRENT LABORATORY**

- 2.1 Testing was conducted on splice kits common at KSC which join together sections of single conductor grounded concentric neutral EPR insulated cables.
  - 2.1.1 KSC has test videos that the Contractor is encouraged to view. Coordinate viewing of the videos with the Contracting Officer's Representative (COR).

**NASA/KSC SOLICITATION NNK15530485R**  
**ATTACHMENT J-B – KSC PROJECT SPECIFIC REQUIREMENTS**

- 2.2** The hose supplying fresh air into a manhole must be adequately secured such that it will not be blown out of the manhole if a fault occurs and thus increase the chance of worker asphyxiation due to smoke inhalation. The Contractor is advised that smoke can be a significant threat especially if blast blankets are used. When a fault occurs, the resulting explosion can vent out of the manhole cover with significant force and this effect is significantly magnified when blast blankets are installed as a curtain barrier.
- 2.3** If 400 Amp neutral grounding resistors are used at the C5 and/or Orsino Substations to limit ground fault current:
- 2.3.1** The Contractor is advised that it is possible for three conductor cables to fail either phase to ground or phase to phase. Phase to phase faults are not current limited by neutral grounding resistors, and the effects of a phase to phase fault are likely to be that indicated in section 2.4 below. Single conductor concentric neutral cables will always fail phase to ground.
  - 2.3.2** KSC conducted laboratory testing has indicated that a cable splice failing in a line to ground fault may or may not burst open. If a phase to ground faulted cable bursts open flash, thermal, and blast effects are significantly reduced if neutral grounding resistors are used. Sound and flash levels are reduced, but are still considered a threat to hearing and sight respectively.
  - 2.3.3** NFPA 70E arc-flash PPE per Section 3.0 below provides the worker a degree of protection and is the minimum acceptable. The Contractor is advised that the risk of burn to uncovered skin is reduced but not eliminated.
  - 2.3.4** Use of arc-flash blast blankets per Section 6.0 below is required to suppress possible flash and blast if a cable splice fails.
  - 2.3.5** Use of hearing protection is required as sound levels will likely exceed 130dB in a short duration sound pulse.
  - 2.3.6** Use of eye protection is required as debris is expelled at a high rate of speed if the cable bursts open.
- 2.4** If 400 Amp neutral grounding resistors are not used at the C5 and/or Orsino Substations, or if a phase to phase fault occurs on a 3-conductor cable:
- 2.4.1** Electrical manholes within KSC have potential fault current levels of 2,000 to 10,000 Amperes RMS symmetrical. Risk of severe injury or death increases rapidly with increasing current.
  - 2.4.2** KSC conducted laboratory testing has indicated that a faulted cable or splice will burst open. Flash, sound, thermal, and blast effects are significant and can be severe and life threatening.

**NASA/KSC SOLICITATION NNK15530485R**  
**ATTACHMENT J-B – KSC PROJECT SPECIFIC REQUIREMENTS**

- 2.4.3** NFPA 70E arc-flash PPE per Section 3.0 below provides the worker a degree of protection and is the minimum acceptable. Any reduction in full body coverage exposes the worker to severe injury or death. Manhole attendants also need to wear full coverage PPE (Category 1 minimum) whenever they are directly adjacent to or looking down into a manhole cover (see 2.2 above).
- 2.4.4** In neutral grounding resistors are not used, draping of arc-flash blankets directly over splices is not acceptable due to the amount of smoke generated and the possibility of inadvertently directing arc-flash incident energy at the worker. Blankets, when used, must be installed as a barrier between cable splices and the worker as stipulated by the blanket manufacturer.
- 2.4.5** Use of hearing protection is required as sound levels may exceed 160dB in a short duration sound pulse.
- 2.4.6** Use of eye protection is required as significant debris is expelled at a high rate of speed if the cable bursts open. If eye protection does not attenuate the flash effect, then the worker is exposed to permanent eye damage or blindness.

**3.0 PROTECTIVE CLOTHING AND PERSONAL PROTECTIVE EQUIPMENT (PPE)**

- 3.1** NFPA 70E Category 2 PPE is the minimum permitted for entering manholes/vaults with energized cables.
- 3.2** Arc flash PPE must be in good condition and maintained in accordance with the manufacturer's requirements. PPE that has degraded flame retardant properties or non-flame retardant materials can instantly ignite and burn if a fault occurs.
- 3.3** Without the use of neutral grounding resistors, or if a phase to phase fault occurs on 3-conductor cable:
  - 1) Any reduction in full body coverage exposes the worker to severe injury or death.
  - 2) An arc-flash rated hood (not face shield) is required for head and neck coverage.
  - 3) Manhole attendants also need to wear full coverage PPE (Category 1 minimum) whenever they are looking down into a manhole cover (reference 2.2.3 above).
- 3.4** PPE reductions are only acceptable in the following circumstances:
  - 1) After manhole entry plan preparations per Section 6.0 below are complete.
  - 2) For the minimum time necessary to complete work requiring a PPE reduction.
- 3.5** Acceptable PPE reductions are as follows:

**NASA/KSC SOLICITATION NNK15530485R**  
**ATTACHMENT J-B – KSC PROJECT SPECIFIC REQUIREMENTS**

- 3.5.1** Face and head protection shall include a balaclava with eye-slit opening only, appropriate eye protection, and hard hat.
- 3.5.1.1** Face and head protection shall not be removed while within a manhole/vault with energized cables.
- (NOTE: Studies have shown that, the use of a face shield while working in an electrical manhole may increase the severity of injuries under an arcflash event.)
- 3.5.2** Gloves shall only be removed when required to improve hand dexterity necessary to accomplish a required task.
- 3.5.3** PPE shall be bloused tightly; shirts tucked, collars and sleeves tight; properly rated footwear worn (ankle high boots), etc.
- 3.5.4** Contractor shall provide conditioned (cooled) air as required to minimize the heat stress of personnel working within manholes with PPE. The Government will not provide such equipment for Contractor use.

**4.0 MANHOLE OUTAGES:**

- 4.1** When all cables within a manhole are de-energized, locked and tagged out, and verified de-energized an electrically safe working condition exists within the manhole and electrical hazard PPE is not required.
- 4.1.1** PPE per Section 3.0 shall be used until the manhole is electrically safe.
- 4.1.2** PPE per Sections 3.0 and 6.0 is required when total manhole outages are not approved. Contractor shall provide all PPE and equipment required to work around energized cables when total manhole outages are not approved.
- 4.2** When a total manhole outage is needed or planned and the outage time duration is insufficient to verify every cable within a manhole(s) is (are) de-energized, the following shall occur:
- 4.2.1** An energized work permit shall be submitted and approved prior to commencing work.
- (NOTE: A minimum of NFPA 70E Category 0 PPE shall be indicated on the permit; however, if existing cables are to be handled, PPE in accordance with Section 3.0 shall be used.)
- 4.2.2** An engineering review of feeder circuit and manhole documentation shall confirm that there are no remaining energized cables. If there is any uncertainty, feeder verification must occur or PPE per Section 3.0 shall be used.
- 4.2.3** The switching order shall be reviewed by the project electrical engineer to insure all cables within the manhole are de-energized with no potential back-feed.
- 4.2.4** The energized work permit shall be signed and dated by the reviewing NASA electrical engineer in the “Comments” section and indicate the following:
- 4.2.4.1** Tracking number of switch order(s) reviewed and statement that upon its execution the manhole(s) is (are) de-energized.

**NASA/KSC SOLICITATION NNK15530485R**  
**ATTACHMENT J-B – KSC PROJECT SPECIFIC REQUIREMENTS**

- 4.2.4.2** List of feeders de-energized within the manhole(s).
- 4.2.4.3** Loads to be inspected as de-energized after switching.
- 4.2.5** All required switching devices required to turn off power to the manhole shall be locked and tagged out.
- 4.2.6** Loads supplied by feeders shall be inspected to verify they are off after switching. If any load expected to be de-energized is on (except those generator backed-up), then work shall stop until resolved by an engineering review or PPE per Section 3.0 shall be used.

**5.0 MANHOLE ENTRY PLAN FOR VISUAL INSPECTIONS WITH ENERGIZED FEEDERS:**

- 5.1** Only visual inspections and grounding checks are permitted.
- 5.2** No contact with cabling or cabling support infrastructure (for the purpose of inspection) is permitted.
- 5.3** PPE shall be in accordance with Section 3.0.

**6.0 MANHOLE ENTRY PLAN FOR ELECTRICAL WORK WITH ENERGIZED FEEDERS:**

- 6.1** An energized electrical work permit shall be submitted and approved before commencing work.
- 6.2** PPE shall be in accordance with Section 3.0.
- 6.3** Arc Suppression blanket (40KA rated) installation is required wherever possible between the workers and any energized cable splice within five (5) feet of the authorized workers for tasks including but not limited to cable splicing, pulling eye attachment, jamb skid set-up.
  - 6.3.1** Draping of blankets over the splices is acceptable as a minimum ONLY when neutral grounding resistors are used.
  - 6.3.2** Splices shall not be moved to install blankets.
  - 6.3.3** Blanket installations involving modification to or attachment to the manhole structure shall be reviewed prior to installation to insure they do not introduce additional hazards (such as tripping) or potentially compromise the manhole structure.

Note: Manufacturer's generally recommend and testing has shown that installing blankets in "wall" or "J" configurations with the blanket positioned between the worker and the energized splices is most effective.
- 6.4** Once the arc suppression blanket(s) is(are) installed work identified in 6.3 can be performed as follows:
  - 6.4.1** The worker shall maintain his/her torso at a minimum of 18 inches away from the nearest energized cable and/or splice.
  - 6.4.2** PPE reductions per Section 3.0 above are allowed.

**NASA/KSC SOLICITATION NNK15530485R**  
**ATTACHMENT J-B – KSC PROJECT SPECIFIC REQUIREMENTS**

**J-B-43            RECORD OF EXISTING AND MODIFIED MANHOLE CONFIGURATION (OCT 2014)**

Prior to starting work and after completing work inside a manhole, the contractor shall take photos inside the manhole and shall label all the submitted photographs (Example: MH-E9 West Wall to MH-E10). The contractor shall maintain an appropriate record of the photos of all manholes and submit two CDs containing all manhole photos and a register at the completion of the contract.

**J-B-44            PRESENCE OF BIOLOGICAL BREAKDOWN BYPRODUCTS IN MANHOLES (OCT 2014)**

Because of the close proximity of manholes to near by sewer lines and storm drain lines, there is a possibility of the presence of Hydrogen Sulfide ( $H_2S$ ). In the given event that this chemical is found in a manhole, the contractor will be required to take additional precautions (Example: additional ventilation and de-watering in order to bring the levels of  $H_2S$  down to OSHA acceptable levels). Additionally if  $H_2S$  is deemed to be present, contractor may be required to implement air monitoring in the immediate working area.